SONY

3-226-930-11(1)

Portable Memory Stick Audio Player

Network Walkman

Operating Instructions

NW-MS9

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For the customers in the United States

Owner's Record

The model and serial numbers are located inside the "Memory Stick" slot cover of the player (see page 7) Record the serial number in the space provided below Refer to them whenever you call your Sony dealer regarding this product

Model No NW-MS9
Serial No _____

INFORMATION:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules These limits are designed to provide reasonable protection against harmful interference in a residential installation This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications

However, there is no guarantee that interference will not occur in a particular installation If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference using one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment

If you have any questions about this product, you may call:
Sony Direct Response Center 1-(800)-222-7669

or write to:
Sony Direct Response Center 12451 Gateway Blvd Fort Myers, FL 33913

Declaration of Conformity

Trade Name:	SONY
Model No :	NW-MS9
Responsible Party:	Sony Electronics Inc.
Address:	1 Sony Drive, Park Ridge, NJ 07656 USA
Telephone No :	201-930-6972

This device complies with Part 15 of the FCC Rules Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation

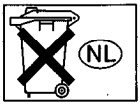
SONY NW-MS9

FC Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

For the customers in the Netherlands

Voor de Klanten in Nederland



Gooi de batterij niet weg, maar lever hem in als KCA

Note on the supplied "MagicGate Memory Stick"

For the customers in the United States

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For the customers in Canada

This class B digital apparatus complies with Canadian ICES-003

Notice for users

On the supplied software

- Copyright laws prohibit reproducing the software or the manual accompanying it in whole or in part, or renting the software without the permission of the copyright holder
- In no event will SONY be liable for any financial damage, or loss of profits, including claims made by third parties, arising out of the use of the software supplied with this player
- In the event a problem occurs with this software as a result of defective manufacturing, SONY will replace it
  However, SONY bears no other responsibility
- The software provided with this player cannot be used with equipment other than that which is so designated
- Please note that, due to continued efforts to improve quality, the software specifications may be changed without notice
- Operation of this player with software other than that provided is not covered by the warranty

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Documentation ©2001 Sony Corporation

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This manual explains how to operate Network Walkman For details on how to use the supplied software (OpenMG Jukebox), refer to the OpenMG Jukebox Operating Instructions

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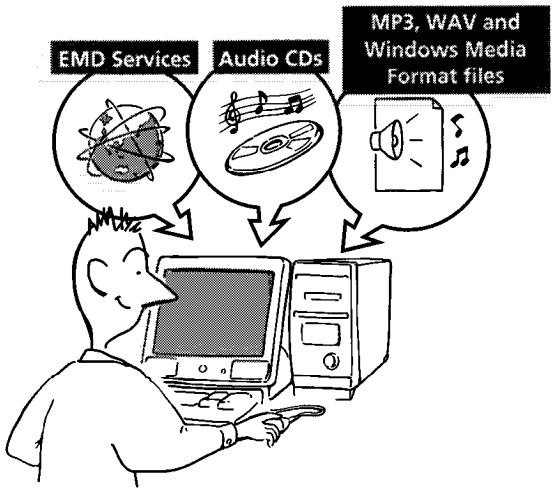
Overview

What you can do with your Network Walkman

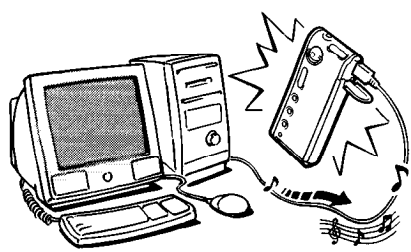
Network Walkman is a portable Memory Stick audio player

You can easily transfer digital audio files from your computer to the "MagicGate Memory Stick" using this product, and carry it anywhere to enjoy

1 **Store digital audio files on your computer.***



2 **Transfer the files to the Network Walkman.**



USB connection

3 **Listen to your Network Walkman.**

For the customers in the United States

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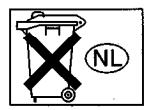

Gooi de batterij niet weg, maar lever hem in als KCA

Note on the supplied "MagicGate Memory Stick"

For the customers in the United States

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- Operation of this player with software other than that provided is not covered by the warranty

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Other features

- Compact size, light weight
- Skip-proof: you can enjoy uninterrupted enjoyment of music during physical activities such as jogging or commuting
- Approximately 10 hours of continuous playback with a rechargeable nickel hydride battery
- Recordable time: up to 60 min , 80 min , 120 min **, on the supplied 64MB "MagicGate Memory Stick "
- Backlight LCD screen: song titles and artist names can be displayed
- High speed data transfer using the supplied USB cable
- OpenMG Jukebox software enables you to record compact discs using the ATRAC3 format (high sound quality, high compression) to the hard drive

* The copyright protection technology of Network Walkman conforms to the SDMI (Secure Digital Music Initiative) specifications

**Differs according to the bit rate when recording In this case, the figures for the recordable time are when recording on a 64MB "MagicGate Memory Stick" at 132kbps, 105kbps, and 66kbps

NOTES:

- The recorded music is limited to private use only Use of the music beyond this limit requires permission of the copyright holders
- Sony is not responsible for music files that are not saved on your computer due to unsuccessful recording from CD or music downloading

On "MagicGate Memory Stick"

What is a "Memory Stick"?

"Memory Stick" is a compact, portable and versatile Integrated Circuit recording medium with a data capacity that exceeds a floppy disk "Memory Stick" is specially designed for exchanging and sharing digital data among "Memory Stick" compatible products Because it is removable, the "Memory Stick" can also be used for external data storage

Types of "Memory Stick"

There are two types of "Memory Stick":

– "MagicGate Memory Stick" that is equipped with "MagicGate" copyright protection technology

– "Memory Stick" that is not equipped with "MagicGate" copyright protection technology

(See "Glossary" on page 31 for details)

Use a "MagicGate Memory Stick" with this player

A 64-MB "MagicGate Memory Stick" is supplied with this product

When you purchase a spare "Memory Stick" for your Network Walkman, be sure to ask for a "MagicGate Memory Stick," which is distinguished by the MG logo

Can be used	Cannot be used
MG	

Note

The Memory capacity of a "MagicGate Memory Stick" supported by this product is 128MB

continued

What is "MagicGate"?

"MagicGate" is a copyright protection technology for "MagicGate Memory Stick" and compliant products, such as Network Walkman Authentication ensures that protected content is transferred only between compliant devices and "MagicGate Memory Stick," and that protected content is recorded and transferred in an encrypted format to prevent unauthorized copying or playback

Notes on use

To avoid damaging data, do not

– release the "Memory Stick" or unplug the USB cable during reading or writing of data

– use the "Memory Stick" in a location subject to static electricity or electric noise

On formatting the "Memory Stick"

The "Memory Stick" is shipped with a FAT format as the standard format

To format the "Memory Stick," please use devices conformable with the "Memory Stick " When formatting the "Memory Stick," do not use the format function on the Windows Explorer "FORMAT ERR" (page 28) is displayed and you cannot playback using Network Walkman To format the "Memory Stick," do one of the following:

- Follow the instructions, "To format the 'Memory Stick'" on page 21
- Use the supplied OpenMG Jukebox software
  For details on how to use the OpenMG Jukebox, refer to the online Help for Network Walkman

On the Windows Explorer

When you connect Network Walkman to your computer with the supplied USB cable, you can display the data recorded on a "Memory Stick" as an external drive (for example, as the D drive) using the Windows Explorer

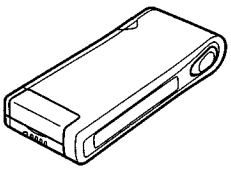
- Data is stored in a folder called "Hifi" Folder Do not edit data that is stored in the "Hifi" Folder You cannot playback data that has been copied or edited using the Windows Explorer
- You can display data that has been recorded on other "Memory Stick" compatible devices (JPEG data, MPEG data, etc)

For information on how to handle data except in the "Hifi" Folder, refer to the instruction manual that comes with the equipment with which the recording has been done

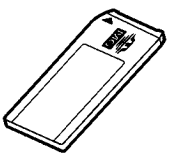
Step 1: Unpacking

Your Memory Stick Audio Player comes with the following items

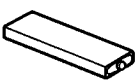
- Memory Stick Player (1)



- "MagicGate Memory Stick" (1)

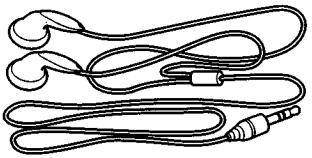


- Rechargeable battery (1)



- Battery charger (1)
- AC plug adaptor (1)
  (Except for U S A, Europe, Hong Kong, Korea, and Australia model)

- Earphones (1)

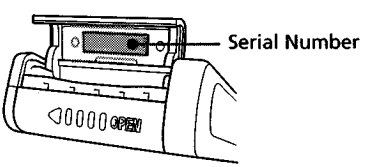


- USB cable (1)

- "Memory Stick" storage case (1)
- Rechargeable battery carrying case (1)
- Carrying pouch (1) (Except for U S A model)
- Key ring (1)
- CD-ROM
  (OpenMG Jukebox installation disc) (1)
- NW-MS9 Operating Instructions (1)
- OpenMG Jukebox
  Operating Instructions (1)

About the Serial Number

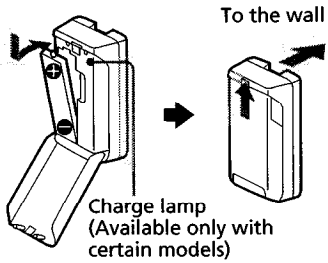
The serial number provided for your device is required for the customer registration The number is on a label on the inside of the Memory Stick slot cover



Step 2: Charging the rechargeable battery

Please charge the battery before using the player

1 Charge the battery



For U S A and European models:
Full charging takes about 7 hours

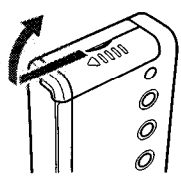
For other countries:
After about 1 5 hours, charging ends and the lamp turns off (To get maximum performance from battery, continue charging it for another hour after the lamp turns off)

Notes

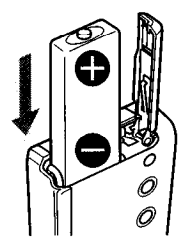
- The shape of the supplied charger varies depending on your country
- Please charge the battery where the temperature is 0°C to 35°C

2 Insert the fully charged battery in the battery compartment

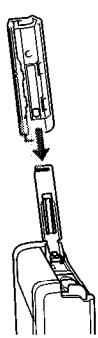
Slide the battery cover in the direction of the arrow to open



Insert the negative end (–) of the battery first



If the battery compartment lid is accidentally detached, attach it as illustrated

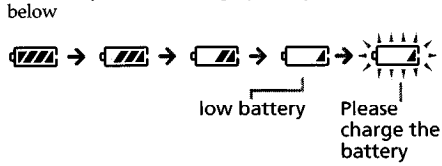


Battery duration

About 10 hours

About the remaining battery charge indication

The battery icon in the display changes as shown below



If "LOW BATT" is displayed in the display, you need to recharge the battery

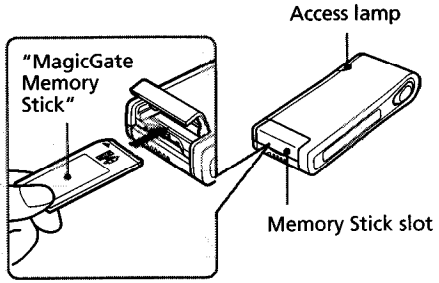
Transferring songs from the computer to the "Memory Stick" (Check-Out)

In order to check-out digital audio files from your computer, first you must install the supplied OpenMG Jukebox software and then import digital audio files to OpenMG Jukebox

For details, refer to the OpenMG Jukebox operating instructions

1 Connect Network Walkman to your computer

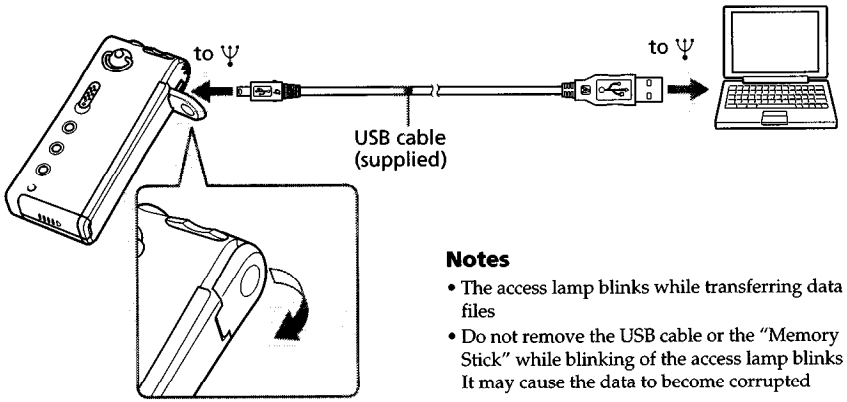
① Insert "MagicGate Memory Stick"



Notes

- When connecting Network Walkman to your computer, make sure the erasure prevention switch of the "Memory Stick" (page 23) is OFF
- Insert the "Memory Stick" into the slot until it clicks into place

② Connect Network Walkman to your computer
Connect the narrow connector of the supplied dedicated USB cable into the dedicated USB jack on Network Walkman, then the wide connector to the USB jack of your computer
"CONNECT" appears in the display



Notes

- The access lamp blinks while transferring data files
- Do not remove the USB cable or the "Memory Stick" while blinking of the access lamp blinks
  It may cause the data to become corrupted

Notes

- Do not connect more than two USB devices to your computer Normal operation will not be guaranteed
- Use of this player with a USB hub or a USB extension cable is not guaranteed
- A malfunction may occur depending on the USB devices connected at any one time
- When connecting Network Walkman to your computer for the first time, check if the OpenMG Jukebox icon appears on the tasktray
  If the icon appears, remove it from the tasktray And then connect Network Walkman to your computer with the supplied dedicated USB cable and start the OpenMG Jukebox software (This procedure is only necessary the first time you connect to your computer)

continued

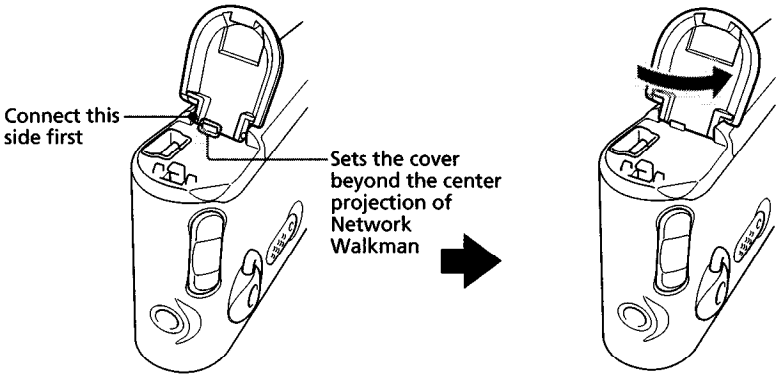
2 Transfer the music file to the "Memory Stick" (Check-out)
For details on how to operate, refer to the OpenMG Jukebox operating instructions

When the cover of the USB connector is released.

After releasing the cover, to reconnect, follow the steps below

① Insert the stud of the cover into the hole of the Network Walkman as shown

② Rotate the cover in the direction of the arrow and insert the other stud into the opposite hole as shown



Tip

To transfer the song back to the computer (check-in), refer to the OpenMG Jukebox software instruction manual or the online help

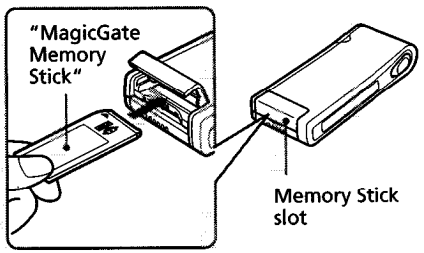
Listening to music with Network Walkman

Please charge the battery before use (see page 8)

Note

When using Network Walkman, be sure to disconnect it from the computer

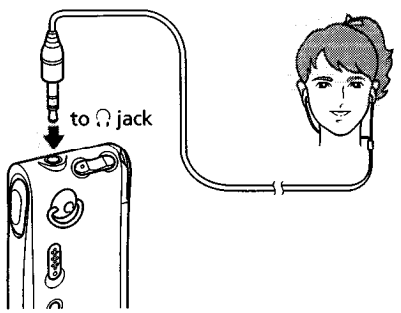
1 Insert a recorded "MagicGate Memory Stick" into Network Walkman



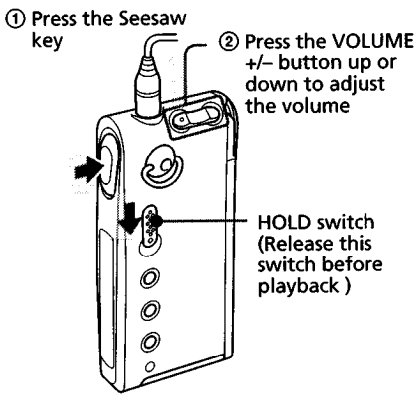
When the "Memory Stick" is inserted into the slot, "ACCESS" appears

All the music files and total playing hours appear

2 Connect the headphones/earphones



3 Start playback


① Press the Seesaw key
② Press the VOLUME +/– button up or down to adjust the volume
HOLD switch (Release this switch before playback)

Playback stops automatically when the music reaches the end (only when REPEAT OFF is selected)

If playback does not start

The HOLD switch may be switched down Please release it up (page 16)

To stop playback

Press the Seesaw key

To adjust the volume

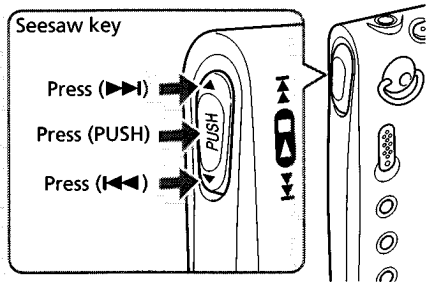
The volume can be set in PRESET and MANUAL mode (page 16)

Tip

If you do not operate the player for 10 seconds while in stop mode, the display automatically turns off When scrolling song titles, etc , the display turns off after scrolling is finished

continued

On other operations



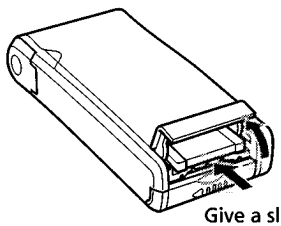
To	Operation of the Seesaw key
Go to the beginning of the next track	Press (▶▶I) once
Go to the beginning of the succeeding tracks [1]	Press (▶▶I) repeatedly
Go to the beginning of the actual track	Press (I◀◀) once
Go to previous tracks [1]	Press (I◀◀) repeatedly
Go forward [2]	During playback, press (▶▶I) and hold
Go backward [2]	During playback, press (I◀◀) and hold

[1] Pressing and holding (▶▶I) of the Seesaw key during stop mode allows you to go to the beginning of the next and succeeding tracks continuously
Also, pressing and holding (I◀◀) of the Seesaw key during the stop mode allows you to go to the beginning of the previous and further tracks continuously

[2] Passing five seconds after starting fast forwarding or fast rewinding operations, its speed increases

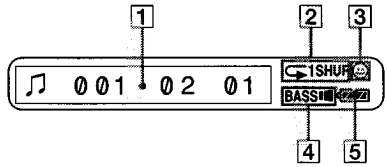
To take out the "Memory Stick"

Open the cover of the "Memory Stick" slot, then slightly push and release the "Memory Stick "



Give a slight push once

On the display



1 Text/graphic information display (page 15)
Display truck number, song title, current date and time (page 18) and menu
In the graphic mode, Spectrum analyzer, etc are displayed
Press the DISPLAY button to change the display mode See "Changing the display mode" on page 15 for details

2 Playback mode indication (page 13)
The selected playback mode is displayed

3 AVLS indication (page 14)
The indication lights up while the AVLS function is activated

4 MEGA BASS indication (page 14)
The indication lights up while the MEGA BASS function is activated

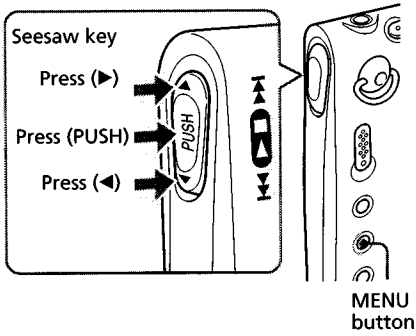
5 Battery remain indication (page 8)
The remaining battery power is displayed

Playing tracks repeatedly (REPEAT)

You can play tracks repeatedly in three ways- all repeat, single repeat and shuffle repeat

Menu	Playback mode	Display indication*
REP OFF	normal	none
REP ALL	all tracks repeatedly	↻
REP 1	current track repeatedly	↻ 1
REP SHUF	all tracks repeatedly in random order	↻ SHUF

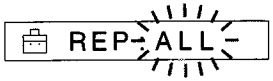
* The display indication appears after step 4



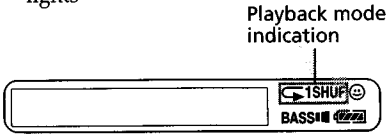
1 Press the MENU button
The menu is displayed

2 Press (PUSH) of the Seesaw key
"OFF" blinks

3 Press ◀ or ▶ of the Seesaw key to select "ALL", "1", "SHUF", or "OFF"



4 Press (PUSH) of the Seesaw key
The selected playback mode indication lights



5 Press the MENU button
The display returns to normal

To exit from the Menu mode

Select [RETURN] in the menu or press the MENU button

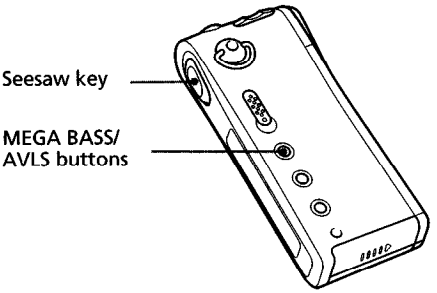
To cancel the REPEAT mode

Select OFF in step 3

Notes

- If there is no "Memory Stick" inserted, "REP : ---" appears in the display, and repeat mode cannot be selected
- Removing the "Memory Stick" from the slot, the setting of "REPEAT" returns to "REP : OFF."

Adjusting the sound



Emphasizing the bass sound (MEGA BASS)

Mega Bass function intensifies low frequency sound for richer quality audio reproduction

Press the MEGA BASS/AVLS button

Each time you press the MEGA BASS/AVLS button, the MEGA BASS indication changes as follows:

BASS ▌ ⟶ BASS ▌▌ ⟶ (none)

Display indication	Sound quality
BASS ▌	Mega Bass (moderate effect)
BASS ▌▌	Mega Bass (strong effect)
none	normal play

Note

If the sound becomes distorted when emphasizing the bass, turn down the volume

To cancel the MEGA BASS effect

Press the MEGA BASS/AVLS button repeatedly until the MEGA BASS indication goes off

Protecting your hearing (AVLS)

The AVLS (Automatic Volume Limiter System) function keeps down the maximum volume to protect your ears

Press and hold the MEGA BASS/AVLS button more than one-half second

The 😐 (AVLS) indication lights up in the display

The volume is kept to a moderate level

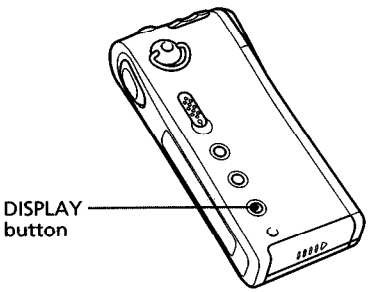
To cancel AVLS

Press and hold the MEGA BASS/AVLS button until the 😐 indication goes off

Changing the display mode

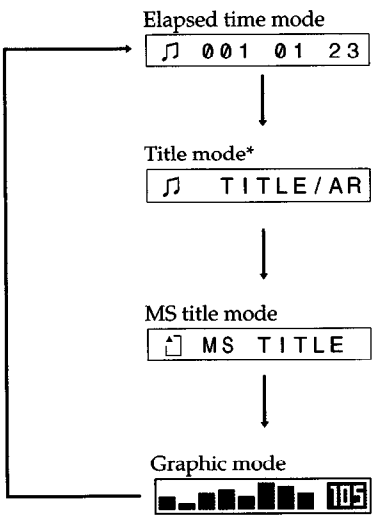
Information for the track numbers or song titles appears on the display in playback or stop mode

You can change the display mode



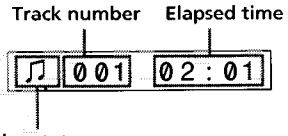
Press the DISPLAY button

Each time you press the DISPLAY button, the display changes as shown below



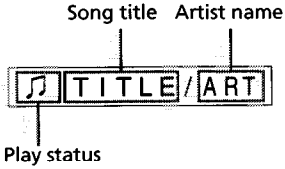
* If the files have no song titles or artist names, "Track001," etc appears

• Elapsed time mode



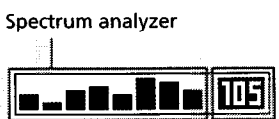
Play status
During playback: ♫ or ♫ is displayed alternately
In stop mode: ♫ is displayed
While locating tracks: ▶▶I or I◀◀ is displayed.
While searching a point in a track: ▶▶ or ◀◀ is displayed

• Title mode

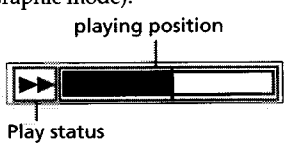


• MS title mode

• Graphic mode



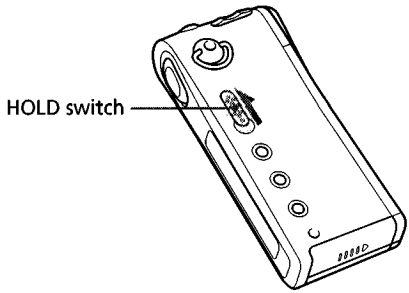
• While searching a point in a track (Graphic mode):



While fast forwarding, fast rewinding, or during continuous search operations, the current playing position is displayed

Locking the controls (HOLD)

To prevent the controls from being accidentally operated when you carry the player, use this function



Slide the HOLD switch in the direction of the arrow

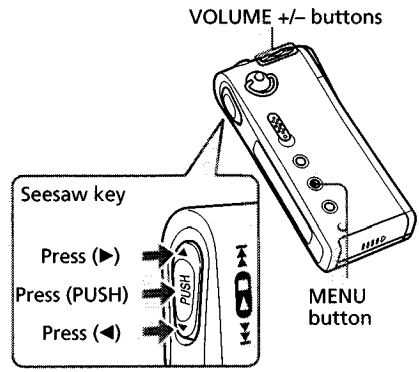
No controls will be able to operate

If you press buttons while the HOLD switch is ON, "HOLD" appears in the display

To release the Hold function

Slide the HOLD switch in the opposite direction of the arrow

Changing the settings



To set a reasonable volume (Volume preset functions)

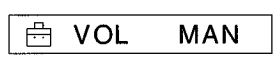
There are two modes of adjusting the volume

Manual mode: By pressing the "VOLUME +/–" button, you can change the setting from 0 to 31

Preset mode: You can switch to any of three preset levels: LO, MID, or HI

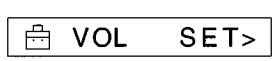
1 Press the MENU button
The menu is displayed

2 Press ◀ or ▶ of the Seesaw key to display "VOL : MAN "



3 Press (PUSH) of the Seesaw key
"MAN" blinks

4 Press ◀ or ▶ of the Seesaw key to display "VOL : SET> "



5 Press (PUSH) of the Seesaw key
"VOL LO xx"* blinks
* xx is a numeric value

6 Press the "VOLUME +/–" button to set the settings of LO, MID, or HI
① Sets numeric of LO
② Press ▶ to display "VOL MID xx," and set it using "+/–"
③ Do the same to set "VOL HI xx"

7 Press (PUSH) of the Seesaw key

8 Press the MENU button
The display returns to normal
While the above settings, the volume can be adjusted to LO, MID, or HI

To exit from the Menu mode

Select [RETURN] in the menu or press the MENU button

Note

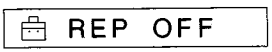
If AVLS is set (page 14), the volume may be lower than previous settings

To turn off the beep sound (BEEP)

BEEP ON: a beep will sound to indicate that operation has been accepted

BEEP OFF: no beep sound will be heard

1 Press the MENU button
The menu is displayed



2 Press ◀ or ▶ of the Seesaw key to display "BEEP : ON"

3 Press (PUSH) of the Seesaw key
"ON" blinks

4 Press ◀ or ▶ of the Seesaw key to display "OFF"

5 Press (PUSH) of the Seesaw key

6 Press the MENU button
The display returns to normal

To exit from the Menu mode

Select [RETURN] in the menu or press the MENU button

To turn on the beep sound

Select ON in step 4

continued

To change the display backlight setting (LIGHT)

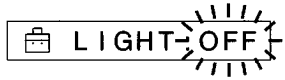
Menu	Backlight mode
OFF	always off
ON	turns on for three seconds after each operation (or until scrolling is complete)

1 Press the MENU button
The menu is displayed

2 Press ◀ or ▶ of the Seesaw key to display "LIGHT : ON "

3 Press (PUSH) of the Seesaw key
"ON" blinks

4 Press ◀ or ▶ of the Seesaw key to display selections



5 Press (PUSH) of the Seesaw key

6 Press the MENU button
The display returns to normal

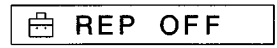
To exit from the Menu mode

Select [RETURN] in the menu or press the MENU button

To set the date and time (DATE – TIME)

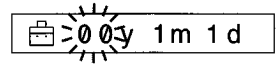
You can set the current date and time and display it To play a music item with a playback period restriction, you need to set the date and time

1 Press the MENU button
The menu is displayed



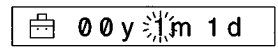
2 Press ◀ or ▶ of the Seesaw key to display "DATE–TIME "

3 Press (PUSH) of the Seesaw key
The "DATE" display appears, and the year indication "y" blinks

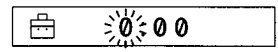


4 Press ◀ or ▶ of the Seesaw key to select the year number "y "

5 Press (PUSH) of the Seesaw key
The month indication "m" blinks



6 Do the same to set the month "m" and the day "d," and press (PUSH) of the Seesaw key
The "TIME" display appears, The hour indication "h" blinks



7 Do the same to set the month "h" and the day "m," and press (PUSH) of the Seesaw key

8 Press the MENU button
The display returns to normal

To switch between 24 hour display and 12 hour display

Press the DISPLAY button during the setting in step 7

To exit from the Menu mode

Select [RETURN] in the menu or press the MENU button

To display the current time

Press the DISPLAY button more than one-half second
You can display the current time during pressing

Note

If the unit is not used for a long time, it may reset your settings of the date and time

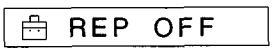
To erase the "Memory Stick" (ERASE)

You can erase music data from the "Memory Stick" one by one

Confirm the contents before erasing

1 Press the MENU button

The menu is displayed



2 Press ◀ or ▶ of the Seesaw key to display "ERASE "

If "ERASE" does not appear in the menu, erasing is not available

3 Press (PUSH) of the Seesaw key

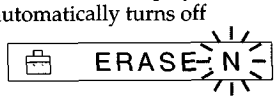
The current track number blinks

4 Press ◀ or ▶ of the Seesaw key to select the track numbers you want to erase

5 Press (PUSH) of the Seesaw key

"N" blinks

Playback starts from the first track If you do not operate it for more than 10 seconds while in playback mode, erasing automatically turns off



6 Press ◀ or ▶ of the Seesaw key to display "Y "

7 Press (PUSH) of the Seesaw key

"ERASE 001?" appears

8 Press (PUSH) of the Seesaw key

"ERASING" appears, and music data is erased from the "Memory Stick "

After erasing is complete, "COMPLETE" appears, and returns to the display in step 2

9 Press the MENU button

The display returns to normal

To exit from the Menu mode

Select [RETURN] in the menu or press the MENU button

To cancel the erasing

Select "N" in step 5, or press the Seesaw key to select ◀ or ▶ in step 7

Notes

- You cannot erase while playback ("ERASE" will not be displayed)
- If the erasure prevention switch of the "Memory Stick" is ON, "MS LOCKED" appears in the display, and you cannot erase the "Memory Stick "
- Do not take out the "Memory Stick" when "ERASING" is displayed

Tip

If the songs are erased from the "Memory Stick," OpenMG Jukebox recognizes them as songs to be checked in when the "Memory Stick" is connected to the original computer that you used for Check-out

Therefore, the remaining Check-out count increases automatically

To format the "Memory Stick" (FORMAT)

You can use the Network Walkman player to format the "Memory Stick"

If formatted, all data previously recorded on the "Memory Stick" will be erased Be sure to check the data of the "Memory Stick" before formatting (data recorded using other devices will also be erased)

A commercially available "Memory Stick" is already formatted at the factory

The supplied "Memory Stick" is also formatted

Note

You cannot use a "Memory Stick" that has been formatted using the computer (page 6)

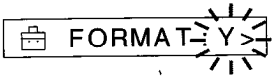
1 Press the MENU button
The menu is displayed

2 Press ◀ or ▶ of the Seesaw key to display "FORMAT "

If "FORMAT" does not appear in the menu, formatting is not available

3 Press (PUSH) of the Seesaw key
"N" blinks

4 Press ◀ or ▶ of the Seesaw key to display "Y "



5 Press (PUSH) of the Seesaw key
"FORMAT?" appears

6 Press (PUSH) of the Seesaw key
"FORMATING" blinks, and starts formatting of the "Memory Stick "
When formatting is finished, "COMPLETE" appears in the display, and returns to the menu in step 2

7 Press the MENU button
The display returns to normal

To exit from the Menu mode

Select [RETURN] in the menu or press the MENU button

To cancel the formatting

Select "N" in step 3, or press the Seesaw key to select ◀ or ▶ in step 5

Notes

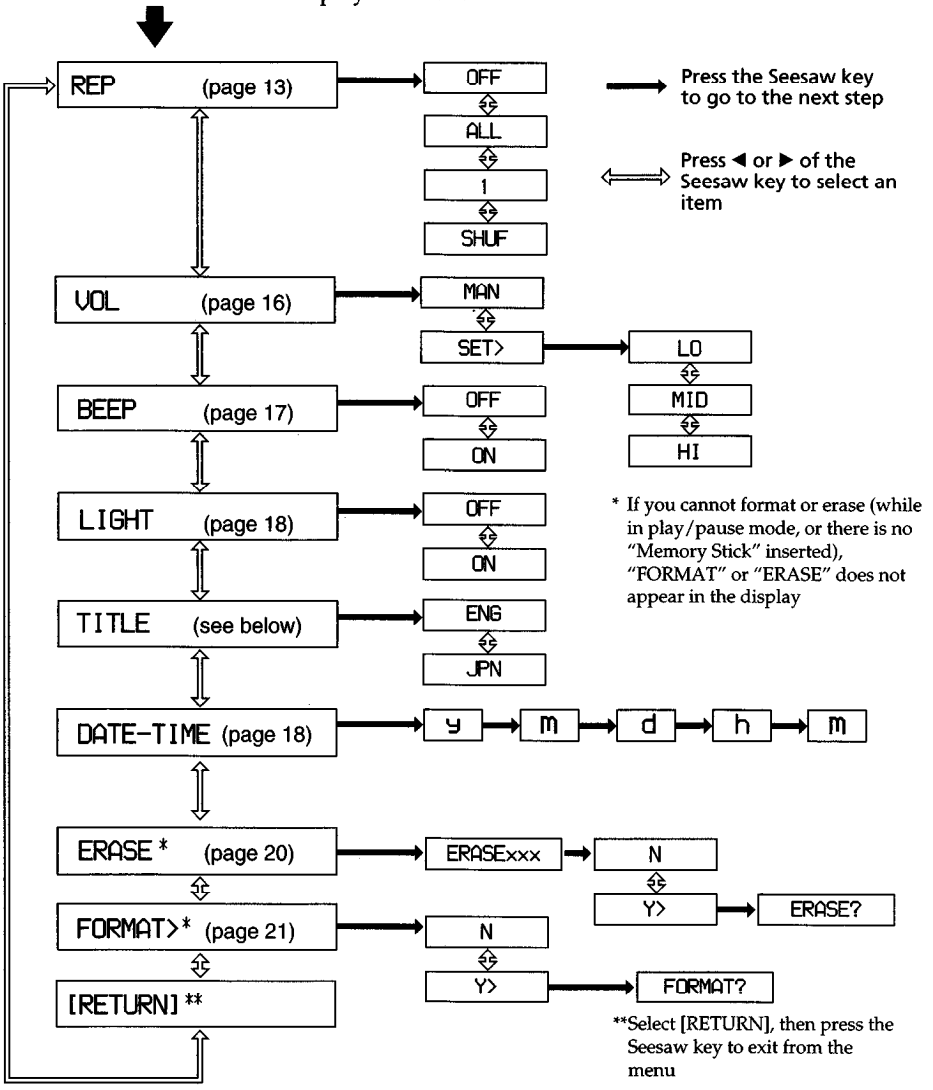
- You cannot format while playback ("FORMAT" will not be displayed)
- If the erasure prevention switch of the "Memory Stick" is ON, "MS LOCKED" appears in the display, and you cannot format the "Memory Stick "
- Do not take out the "Memory Stick" when "FORMATING" is displayed

Tip

If the songs are formatted from the "Memory Stick," OpenMG Jukebox recognizes them as songs to be checked in when the "Memory Stick" is connected to the original computer that you used for Check-out
Therefore, the remaining Check-out count increases automatically

Menu

Press the MENU button to display the menu



On the TITLE menu

You can choose between "ENG" (English) and"JPN" (Japanese) This function will be available in the future when the OpenMG Jukebox software is upgraded and you can use both English and Japanese for album and song titles

About ">"

Selecting ">" on the display, waits your operations on the next window

Precautions

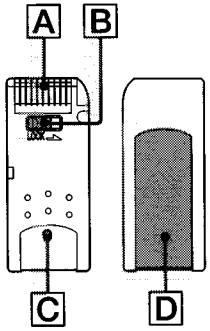
On safety

- When you carry the supplied rechargeable battery, be sure to put it in the supplied rechargeable battery carrying case Carrying the rechargeable battery without the case may cause a short-circuit with metallic objects such as coins, key rings, or necklace As a result, a heat may generate
- Incorrect battery usage may lead to leakage of battery fluid or bursting batteries To prevent such accidents, observe the following precautions:
  - Install batteries with the + and – poles aligned correctly
  - Do not charge dry batteries
- If a battery leak should develop, carefully and thoroughly wipe away battery fluid from the battery compartment before inserting new one

On installation

Never use the player where it will be subjected to extremes of light, temperature, moisture or vibration

On handling the "Memory Stick"



- When the "Memory Stick" erasure prevention switch is set to "LOCK," data cannot be recorded, erased or edited (B)
- The tactile protrusion on the rear surface of "MagicGate Memory Stick" distinguishes it from a general "Memory Stick "(C)
- Do not attach any other material than the supplied label on the label space (D)
- Attach the label so that it does not stick out from the proper attachment location
- Do not touch the "Memory Stick" connector with your finger or metallic objects (A)
- Do not bend, drop or apply strong shock to the "Memory Stick "
- Do not disassemble or modify the "Memory Stick "
- Do not allow the "Memory Stick" to get wet
- Do not use or store the "Memory Stick" in a location that is subject to:
  - Extremely high temperature, such as in a car parked in the sun
  - Direct sunlight
  - High humidity or places with corrosive substances
- To prolong the life of the "Memory Stick," use the supplied storage case

On the headphones/earphones

Road Safety

Do not use headphones/earphones while driving, cycling, or operating any motorized vehicle It may create a traffic hazard and is illegal in many areas It can also be potentially dangerous to play your player at high volume while walking, especially at pedestrian crossings You should exercise extreme caution or discontinue use in potentially hazardous situations

Preventing hearing damage

Avoid using headphones/earphones at high volume Hearing experts advise against continuous, loud and extended play If you experience a ringing in your ears, reduce the volume or discontinue use

Caring for others

Keep the volume at a moderate level This will allow you to hear outside sounds and to be considerate of the people around you

continued

On cleaning

- Clean the player casing with a soft cloth slightly moistened with water or a mild detergent solution Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzene as it may mar the finish of the casing
- Clean the headphones/earphones plug and extension cord plug periodically

If you have any questions or problems concerning your Network Walkman, please consult your nearest Sony dealer (If trouble occurred when the "Memory Stick" was in the player, we recommend that the "Memory Stick" be left in the player when you consult your Sony dealer so that the cause of trouble may be better understood)

Notes on the rechargeable battery

- Be sure to use the supplied battery charger only for specified batteries
- When a rechargeable battery is charged for the first time or charged after a long period of disuse, battery life may be shorter than usual Repeat discharging and recharging a few times The battery life should return to normal
- Disconnect the charger from the wall outlet as soon as the battery has been charged Leaving it connected may result in reduced battery performance
- The charger and a rechargeable battery may become warm while recharging, however this is normal and is not a malfunction
- The charging time may vary depending on the battery condition
- A rechargeable battery can be charged about 300 times
- When the battery life of a fully charged rechargeable battery becomes about half the normal life, you may need to replace the battery with a new one

For the customers in the U.S.A. and Canada

DISPOSAL OF NICKEL METAL HYDRIDE BATTERY.

NICKEL METAL HYDRIDE BATTERY
DISPOSE OF PROPERLY

You can return your unwanted nickel metal hydride batteries to your nearest Sony Service Center or Factory Service Center

Note: In some areas the disposal of nickel metal hydride batteries in household or business trash may be prohibited

For the Sony Service Center nearest you call 1-800-222-SONY (United States only)

For the Sony Factory Service Center nearest you call
416-499-SONY (Canada only)

Caution: Do not handle damaged or leaking nickel metal hydride battery

Troubleshooting

If you experience any of the following difficulties while using Network Walkman, use this troubleshooting guide to help you remedy the problem Should any problem persist, consult your nearest Sony dealer For trouble concerning operations while connecting with your computer, please refer to the supplied software's online help "Troubleshooting" contents, too

To reset the player

If Network Walkman does not operate normally or if there is no sound, even after checking the troubleshooting guide below, remove the battery, then re-insert it

What happened ?

On playback

Symptom	Cause/Remedy
There is no sound	→ Adjust the volume (page 11) → Connect the headphones securely to the headphones jack
The volume does not increase	→ Cancel the AVLS function (page 14)
Sound is distorted	→ Record with a higher bps value (page 32)
There is no sound from the right channel of the headphones	→ Make sure that the headphones plug is connected securely
Playback has stopped suddenly	→ The battery is exhausted You need to change it (page 8) → Release and reinsert the "Memory Stick" a few times to clean the terminals
Cannot playback audio data with date limits	→ You must set the date in the menu (page 18) → The date has expired

On the display window

Symptom	Cause/Remedy
The backlight is off	→ Set the LIGHT setting to ON (turns on during operation) in the menu (page 18)
"□" appears instead of the album title	→ Use the OpenMG Jukebox to rename the title with characters which can be displayed on the player

continued

On charging

Symptom	Cause/Remedy
The battery does not last even when recharged	→ If you use the player where the temperature is below 0°C (32°F), the battery does not function → You need to replace the battery Please contact your nearest Sony dealer
Charging stops just after connecting the supplied battery charger	→ The battery is full (If the charging stops even when the battery is low, this may be due to a problem with the battery life Please contact your nearest Sony dealer)

On the connection with the computer

Symptom	Cause/Remedy
"CONNECT" does not appear in the display window when connecting to the computer with the supplied USB cable	→ Please wait for the authentication of the OpenMG Jukebox (page 31) to be finished → If another software is active on your computer, wait for a while, then reconnect the USB cable If the problem persists, disconnect the USB cable, restart your computer, then connect the USB cable to your computer again → Make sure the USB cable is correctly connected
The computer does not identify the player when it is connected to the computer	→ Make sure the USB cable is correctly connected (page 9) → Install driver only For details, refer to the OpenMG Jukebox operating instructions.
There are only a few songs I can Check-out (The recordable time is short)	→ If there is data other than audio files in the "Memory Stick," copy them to your computer to free memory on the "Memory Stick."
After connecting to the computer, the drive appears but there is nothing inside	→ Make sure the "Memory Stick" is inserted and reconnect the player to your computer Disconnect the USB cable and put in the battery, then check the display If the error message is displayed, there may be a problem with the "Memory Stick " Follow the on-screen instructions to solve the problem
The computer/player does not operate normally when connected	→ If you are connecting both devices with a USB hub or a USB extension cable, normal operation is not guaranteed Please use only the supplied USB cable.

Other

Symptom	Cause/Remedy
The buttons do not operate	→ Make sure the HOLD switch is OFF (page 16) → You must recharge the battery (page 8)
There is no beep sound to indicate that operation has been accepted	→ Set the BEEP setting to ON in the menu (page 17)
Cannot insert the "Memory Stick "	→ Make sure the "Memory Stick" is correctly inserted as shown on Network Walkman (page 9)
The current time is reset	→ The battery is low and needs to be charged
Cannot use a "Memory Stick" used on other devices	→ Only "MagicGate Memory Stick" can be used with this player → If the "Memory Stick" has been formatted using a computer, backup the files of the"Memory Stick" on your computer if necessary, and reformat the "Memory Stick" using this player (page 21)

continued

Error messages

Follow the instructions below if an error message appears in the display

Message	Meaning	Remedy
ACCESS	Accessing the "Memory Stick "	This is not an error Please wait for access to be finished Do not take out the "Memory Stick"
CANNOT PLAY	• The player cannot playback certain contents of this "Memory Stick" due to a difference in format • Check-out has been interrupted forcefully	• Remove and reinsert the battery, and then check the display on the screen • If music data cannot be played back, you can erase it from the "Memory Stick " For details on how to erase, refer to "To erase the abnormal data from the Memory Stick" (page 29)
FILE ERROR	• Cannot read the data • The data is not normal	• Remove and reinsert the battery, and then make sure displays on the screen • You need to Check-in data you are able to Check-in into your computer, then format the "Memory Stick" using this player (See "To delete abnormal data from the Memory Stick" on page 29)
FORMAT ERR	The inserted "Memory Stick" contains a data format which is not supported by Network Walkman (For example, if you format the "Memory Stick" using the computer)	You must format the "Memory Stick" following the instructions on page 21 (You must format the "Memory Stick" using this player If you format the "Memory Stick" using the computer, you may Check-in/out, but you cannot playback using this player)
HOLD	The HOLD switch is ON, and no operating buttons are available	This is not an error Switch the HOLD switch to OFF before operating the buttons
EXPIRED	• The data's playback date has expired • The current date has not been set to playback data with date limits • Plays back songs beyond the playback restriction supported by Network Walkman	• You need to set the current date to playback data with date limits (page 18) • If there is data in a different format, you must delete that data from the "Memory Stick" (See "To delete abnormal data from the Memory Stick," on page 29)
MS LOCKED	The erasure prevention switch of the "Memory Stick" is on LOCK	Switch the erasure prevention switch to OFF when connecting to your computer or formatting a "Memory Stick "
LOW BATT	The battery is low, and needs to be charged	You must charge the battery
ERROR	A malfunction is detected	First, remove and reinsert the battery If you have any questions or problems concerning your Network Walkman, please consult your nearest Sony dealer
NO AUDIO	• There is no music data in "MagicGate Memory Stick " • The "Memory Stick" is not "MagicGate Memory Stick "	Check that "MagicGate Memory Stick" is inserted If there is no music data in "MagicGate Memory Stick," use the OpenMG Jukebox to Check-out music items

Message	Meaning	Remedy
NO DATA	There are no tracks inside "MagicGate Memory Stick "	Use the OpenMG Jukebox to Check-out music items
NO STICK	There is no "Memory Stick" inserted	Insert a "Memory Stick "
CONNECT	The player is connected to the computer	This is not an error You can operate using the OpenMG Jukebox software, but you cannot operate the controls on the player
STICK ERROR	You cannot access the "Memory Stick," or the data inside the "Memory Stick" or the player itself is not normal	• Remove and reinsert the battery, and then make sure displays on the screen • Eject and reinsert the "Memory Stick" a few times If this does not solve the problem, Check-in data items into the computer, and then format the "Memory Stick" using this player (Refer to the instructions in "To delete the abnormal data from the Memory Stick" below for details) If the problem persists, bring both the player and the "Memory Stick" to your nearest Sony dealer
MG ERROR	An unauthorized distribution file is detected for copyright protection	• Remove and reinsert the battery, then check the display on the screen • First, check-in the Check-in data available to your computer, then format the "Memory Stick" with Network Walkman Refer to the instructions in "To delete the abnormal data from the Memory Stick" below for details

To delete abnormal data from the "Memory Stick"

If "CANNOT PLAY," "EXPIRED" "FILE ERROR," "STICK ERROR" "MG ERROR" appears in the display window, there is abnormal data in the "Memory Stick "

Please follow the instructions below to delete abnormal data (data you cannot playback)

1 Connect Network Walkman to your computer, and start the "OpenMG Jukebox "

2 If the cause of the abnormal data is clear (data of which the playback date limits have expired, etc), erase the data from the Portable Player window of the "OpenMG Jukebox "

3 If the problem persists, click the button on the OpenMG Jukebox to Check-in all data you are able to Check-in

4 Disconnect the player from the computer and then format the "Memory Stick" using the menu (page 21)

Note

If you format the "Memory Stick," data that has been recorded using other devices will be deleted, too If there are other data in the "Memory Stick," check the data contents using a compatible equipment before formatting the "Memory Stick " Refer to the OpenMG Jukebox Help files

Specifications

Recording time (when using the supplied 64MB "MagicGate Memory Stick")

Approx 60 min (132kbps)
Approx 80 min (105kbps)
Approx 120 min (66kbps)

Sampling frequency response

44 1kHz

Recording format

ATRAC3

Frequency response

20 to 20,000 Hz (single signal measurement)

Output

Headphone/earphone: stereo mini-jack

Signal-to-noise ratio (S/N)

More than 80dB (excluding 66 kbps)

Dynamic range

More than 85dB (excluding 66 kbps)

Operating temperature

5°C to 35°C (-41°F to 95°F)

Power source

- DC IN 1 2V (gum type, secondary battery Ni-MH (NH-14WM))
- Power for USB (supplies from the computer through supplied USB cable)

Battery life

Approx 10 hours (back-to-back playback)

Dimensions (approx.)

36 × 81 4 × 14 1 mm (1 7/16 × 3 1/4 × 9/16 inches) (w/h/d, projecting parts not included)

Mass (approx.)

67g (2 4 oz) (includes "Memory Stick," battery NH-14WM)

Supplied accessories

64MB "MagicGate Memory Stick" (1)
Rechargeable battery (1)
Battery charger (1)
AC plug adaptor (1) (Except U S A, Europe, Hong Kong, Korea, and Australia model)
Earphones (1)
USB cable (1)
"Memory Stick" storage case (1)
Rechargeable battery carrying case (1)
Carrying pouch (1) (Except for U S A model)
Key ring (1)
CD-ROM (OpenMG Jukebox installation disc) (1)
NW-MS9 Operating Instructions (1)
OpenMG Jukebox Operating Instructions (1)

Optional accessories

"MagicGate Memory Stick" MSG-32A (32MB)
MSG-64A (64MB)

Design and specifications are subject to change without notice

Glossary

MagicGate

Copyright protection technology that consists of authentication and encryption technology Authentication ensures that protected content is transferred only between compliant devices and media, and that protected content is recorded and transferred in an encrypted format to prevent unauthorized copying or playback

Note

MAGICGATE is terminology denoting the copyright protection system developed by Sony It does not guarantee conversion among other media

"MagicGate Memory Stick"

A compact IC recording media "Memory Stick" equipped with "MagicGate" copyright protection technology You can record or play data, such as music, that requires copyright protection only by using a "MagicGate Memory Stick" with "MagicGate" compatible equipment (e g , Network Walkman)
"MagicGate Memory Stick" can be used to record any other kind of digital data with any other "Memory Stick" compatible equipment
"MagicGate Memory Stick" is distinguished by the "MG" and "MAGIC GATE" logos

"Memory Stick"

"Memory Stick" is a portable and compact Integrated Circuit recording medium There are two types of "Memory Stick": "MagicGate Memory Stick" equipped with "MagicGate" copyright protection technology and a normal "Memory Stick" not equipped with the copyright protection technology You can record image files, audio files, and sound files using "Memory Stick" compatible audio visual devices, or record data from the computer Data with different formats can be stored in the same "Memory Stick " (Please refer to the instruction manuals that come with the devices to check which format the equipment is able to read)
For example, you can store image files in the space available on "MagicGate Memory Stick" using the respective equipment even if there are already audio files in "MagicGate Memory Stick "

OpenMG

Copyright protection technology that securely manages music content from the EMD/Audio CD on a personal computer Application software that is installed on the computer encrypts the digital music content when recording on the hard drive This allows you to enjoy music content on the computer, but prevents unauthorized transmission of this content across a network (or elsewhere) This PC copyright protection complies with "MagicGate," and allows you to transfer digital music content from a PC's hard drive to a compliant device

ATRAC3

ATRAC3, which stands for Adaptive Transform Acoustic Coding3, is audio compression technology that satisfies the demand for high sound quality and high compression rates

The ATRAC3 compression rate is approximately 10 times higher than that of the Audio CD, resulting an increased data capacity for the media

continued

SDMI

SDMI which stands for Secure Digital Music Initiative, is a forum that consists of over 130 companies in the fields of recorded audio content, computers, and consumer electronics, dedicated to developing an integrated method of copyright protection technology that can be used worldwide

SDMI is working to create a framework for preventing improper usage of audio files and to promote legal music distribution services The copyright protection technologies "OpenMG" and "MagicGate" are based upon the SDMI standard

"Check-in/Check-out"

Check-out is to transfer music files from a personal computer to an external device/media (such as Network Walkman) Returning checked-out music files to the same computer is to check-in (You cannot move checked-out music files to another computer)

You can check-out a music file, check it back in, and then check it out again an infinite number of times The SDMI rules provide that up to four copies of a music file can be checked-out at one time OpenMG employs a method whereby three copies of a song can be checked-out simultaneously, while the fourth copy is maintained as a "master" on your PC If three copies of the same song are checked-out at a given time, one copy of the song needs to be checked-in to the computer in order to create an additional check-out

Bit rate

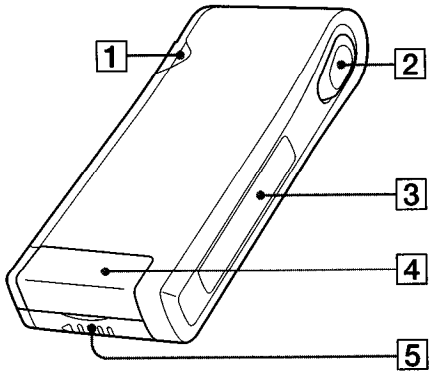
Indicates the data amount per second The rate is reflected in bps (bit per second)

In OpenMG Jukebox, the bit rate for recording an audio CD or converting MP3 and WAV format audio files into ATRAC3 format can be chosen from 132 kbps/105kbps/66kbps 105 kbps means 105000 bits of information per second If the bit rate is large, that means a large amount of information is used to play music Comparing music of the same format, a 105 kbps data offers better sound quality than 66 kbps data, and 132 kbps data offers better sound quality than 105 kbps data However, audio files in formats such as MP3 have different encoding methods, and thus sound quality cannot be determined by simply comparing the bit rate

Looking at the controls

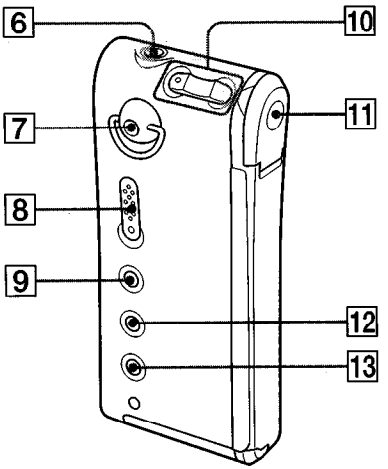
Network Walkman

(front)



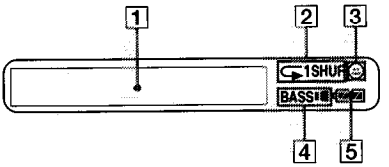
1 Access lamp (page 9)
2 Seesaw key (page 11-14, 16-22)
3 Display (page 12, 15)
4 Memory Stick slot (page 9, 11)
5 Battery compartment (page 8)

(rear)



6 ∩ (Headphones/earphones) jack (page 11)
7 Hole for attaching the key ring or strap (The strap is not supplied)
8 HOLD switch (page 16)
9 MEGA BASS/AVLS button (page 14)
10 VOLUME +/– buttons (page 11, 16)
11 Dedicated USB jack (page 9)
12 MENU button (page 13, 16-22)
13 DISPLAY button (page 12, 15)

Display



1 Text/graphic information display (page 15)
2 Playback mode indication (page 13)
3 AVLS indication (page 14)
4 MEGA BASS indication (page 14)
5 Battery remain indication (page 8)

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OpenMG Jukebox Ver.2.0

for Sony digital music players

Operating Instructions

This manual describes how to install the OpenMG Jukebox software and explains its basic operations for use with the Sony digital music players such as the Network Walkman or Music Clip Player
Before you start, please also review the instruction manual of your digital music player as well

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- In the event a problem occurs with this software as a result of defective manufacturing, SONY will replace it
  However, SONY bears no other responsibility
- The software provided with this player cannot be used with equipment other than that which is so designated
- Please note that, due to continued efforts to improve quality, the software specifications may be changed without notice

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Notes

- The illustrations in this manual may differ from the actual software
- Explanations in this manual assume that you are familiar with basic operations of Windows For how to use your computer and operating system, please refer to the respective manuals

Overview

What you can do with the OpenMG™ Jukebox software

OpenMG Jukebox is a software application that utilizes Sony Corporation's copyright protection technology, "OpenMG " It allows users to store and play digital music content on the hard disk drive of a computer You can transfer digital audio files from the hard drive to a Sony digital music player such as the Network Walkman™ or Music Clip™ Player, etc , for portable listening The OpenMG copyright protection technology enables storage and playback of music contents while maintaining the holder's copyrights by preventing unauthorized distribution

How to store digital audio files on the computer

To listen to digital music with a digital music player, import and save audio files into the hard disk of your computer using the OpenMG Jukebox You can import digital audio files with OpenMG Jukebox in the following ways:

- Downloading digital audio files provided by EMD (Electronic Music Distribution) service sites over digital networks such as the Internet (see Page15)
- Recording from audio CDs inserted into the CD-ROM drive of your computer (the recorded songs are compressed in the ATRAC3 format) (see Page 13)
- Converting existing MP3 and WAV format audio files to the ATRAC3 format which is encrypted in OpenMG format* (see Page 17)

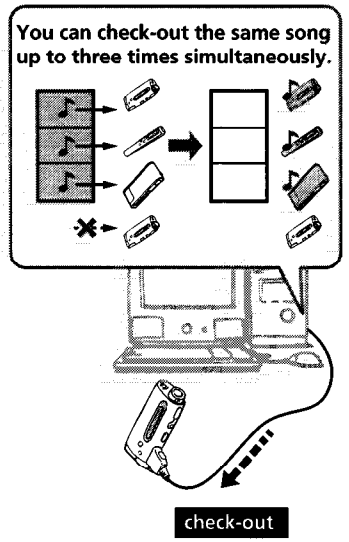
* If you are using NW-S4 or Music Clip Player, you can check-out MP3 format audio files from OpenMG Jukebox to the digital music Player

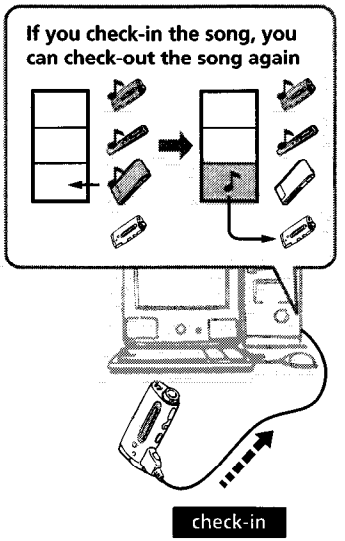
What is "Check-in/Check-out"?

After storing the audio files on the hard disk of your computer, you can transfer them to the digital music player using OpenMG Jukebox

Transferring audio files to the digital music player from your computer is called "check-out " Returning checked-out audio files back to that computer is called "check-in "

For details, see "Check-in/Check-out" in the Glossary on page 36





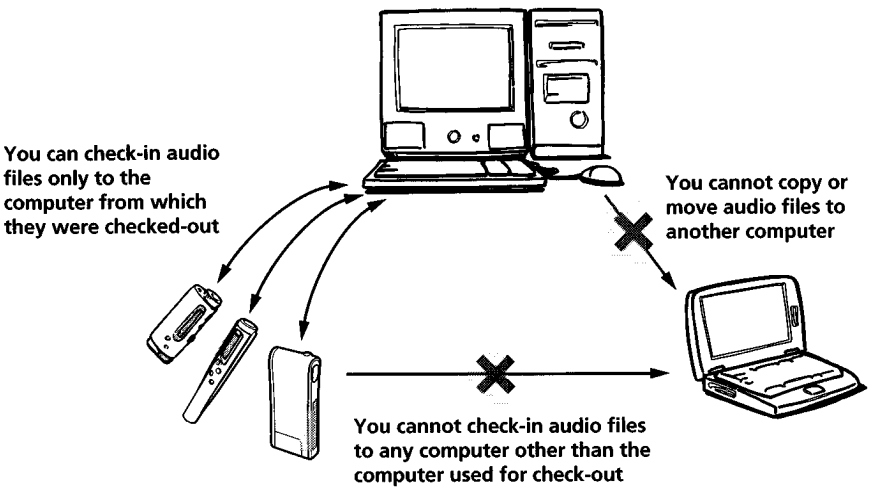
On copyright protection

The OpenMG technology* allows you to enjoy digital music, while maintaining the copyrights of its holders OpenMG Jukebox encrypts audio files in OpenMG format and stores them on the hard disk of your computer to prevent unauthorized distribution

* The copyright protection technology of your digital music player conforms to SDMI (Secure Digital Music Initiative) specifications

The digital music player has some restrictions on recording and playback to protect copyrights You can check-in audio files only to the same computer from which they were checked-out They cannot be copied or checked-in to other computers

For details, see "Restrictions on copyright protection by OpenMG" on page 35


You can check-in audio files only to the computer from which they were checked-out
You cannot copy or move audio files to another computer
You cannot check-in audio files to any computer other than the computer used for check-out

Restrictions on audio content

High quality digital audio content is widely available through music distribution services on the Internet To protect the copyrights of its holders from unauthorized distribution, some audio content is distributed with certain restrictions on recording and playback For example, the playback period or playback count for the data may be limited

About this manual

This manual explains how to operate the OpenMG Jukebox software basics for use with the digital music player

For details about the use of the digital music player, refer to the instruction manual supplied with your digital music player

For details about the OpenMG Jukebox software, refer to the online Help for OpenMG Jukebox

To display online Help

Online Help consists of two sections

OpenMG Jukebox Help

Explains how to use OpenMG Jukebox software

Digital music player Help

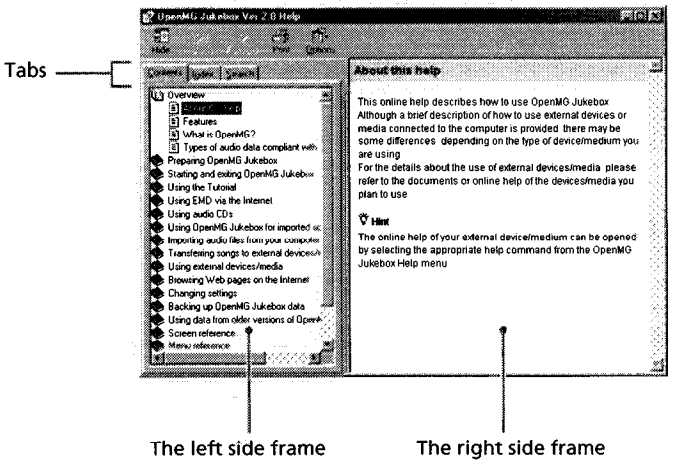
Explains how to use digital music player while it is connected to your computer

You can display Help in the following ways:

- Click the [Start] button, point to [Programs], then select the help you want to view from [OpenMG Jukebox]
- Select the help you want to view from the [Help] menu while running OpenMG Jukebox

Using online Help

To view the display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Screen reference
Menu reference
About this help
This online help describes how to use OpenMG Jukebox
Although a brief description of how to use external devices or media connected to the computer is provided there may be some differences depending on the type of device/medium you are using
For the details about the use of external devices/media please refer to the documents or online help of the devices/media you plan to use
Hint
The online help of your external device/medium can be opened by selecting the appropriate help command from the OpenMG Jukebox Help menu
The left side frame
The right side frame

- The left side frame
  Displays contents and keywords
  Click [Contents] tab, [Index] tab, or [Search] tab to change the display
- The right side frame
  Displays topics
  Click the underlined item to display related topics

continued

To search topics

To perform a search, click the tabs on the left side frame as follows:

- [Contents] tab
  Click the tab to display the Contents
  Click or double-click the item in the Contents to display a topic on the right side frame
- [Index] tab
  Click the tab to display a list of Index
  Enter the first few letters of the topic you want to search for or select a keyword from the Index list and click [Display] to display a topic on the right side frame
- [Search] tab
  Click the tab to change the display of the left side frame
  Enter the first few letters of the topic you want to search for in the "Type in the keyboard to find" text box and click [List topics] Then select an item in the list to search for and click [Display] to display a topic on the right side frame (The information you enter in the window is highlighted)

Before you begin

System requirements

- IBM PC/AT or Compatible
  CPU: MMX™ Pentium® 233 MHz or higher
  Hard disk drive space: 60 MB or more
  RAM: 64 MB or higher
  CD-ROM drive
  Sound Board
  USB port
- Operating System: Windows® 98/Windows® 98 Second Edition/Windows® 2000 Professional/Windows® Me (manufacturer installed)
  The following environments are not supported
  – Windows® 95, Windows® NT
  – Upgraded from Windows® 3 1/95 to Windows® 98 (or Windows® 98 Second Edition/Windows® Me)
  – Dual boot with Windows® 2000 and Windows® 98 (or Windows® 98 Second Edition/Windows® Me)
- Display: High (16bit) Color or more (800 × 480 dot or more)
- Internet access: for Web registration and EMD services

Note

We do not assure trouble-free operation for all computers satisfying the system requirements

Note

For the protection of copyrights when you use the computer with an optical digital output connector, it may be disabled during playback with this software

Notes on using OpenMG Jukebox with Windows 2000

OpenMG Jukebox software users with Windows 2000 models should be aware of the following:

- Only Administrators are allowed to install and uninstall the OpenMG Jukebox software
- To use the application, log on with the user name of "Administrator" or "Power User"
- Do not remove or insert the CD-ROM drive connected via a PC card while OpenMG Jukebox is running
- Only Windows 2000 Professional Edition is supported
- Windows 2000 NTFS format is not supported Use FAT32 format

Notes on using OpenMG Jukebox with Windows Me

If Windows Millennium Edition is installed in your computer, and you perform the "System Restore" function of the Windows "System Tools," the songs managed by OpenMG Jukebox may become corrupted and rendered unplayable
Therefore, before executing "System Restore," back up the songs using OpenMG Jukebox Backup Tool first
Then, after the "System Restore" function is finished, restore the songs using OpenMG Jukebox Backup Tool to ensure the integrity and reliability of song playback
For more information about backup, refer to the online Help for OpenMG Jukebox

Note

When songs become unplayable by executing "System Restore," an error dialog box may be displayed In this case, follow the displayed messages

Installing the OpenMG Jukebox software

Note

Be sure to install the software before connecting the digital music player to your computer
Do not install the software while the dedicated USB cable is connected to your computer
Connect the dedicated USB cable only after you have installed the software and restarted the computer

Install the OpenMG Jukebox software to the hard disk drive of your computer
Turn on your computer and start Windows in advance Close all applications and follow the steps below

When you use Windows 2000

You must log on as an Administrator

When an older version of OpenMG Jukebox is installed

If OpenMG Jukebox icon is displayed on the Task tray, remove it from the Task tray

1 Insert the installation CD-ROM into the CD-ROM drive of your computer

The setup program starts up automatically The OpenMG Jukebox Ver 2 0 installation window appears

Tip

Select the desired language if the setup language options appear

2 Click to select [Install OpenMG Jukebox Ver 2 0 and Driver] or [Install Driver only]

- If installing OpenMG Jukebox for the first time, select [Install OpenMG Jukebox Ver 2 0 and Driver]
- If an older version of OpenMG Jukebox is installed, select [Install OpenMG Jukebox Ver 2 0 and Driver] (see page 12)
- If OpenMG Jukebox Ver 2 0 is already installed, select [Install Driver only] to add only the driver for a new external device/media

3 Click to select your digital music player model

If you have more than one digital music player, you can select multiple models by clicking them

4 Click [Install], then follow the displayed instructions

If OpenMG Jukebox icon is already displayed on the Task tray

The setup program will not be run and the software will not be installed First, right-click on the OpenMG Jukebox icon on the task tray and select [Exit] to remove the icon, then start the setup program again

After the installation is completed, the computer will be restarted if required

continued

5 Connect your digital music player to your computer

If the OpenMG Jukebox icon is set to display on the Task tray

The first time you connect the digital music player to the computer after installing OpenMG Jukebox Ver 2 0, remove OpenMG Jukebox icon from the Task tray before connecting From the next time, this is not necessary

6 Start OpenMG Jukebox

Note

Do not delete, move, or edit the installed folders using Windows Explorer or any other application Doing so could cause the OpenMG Jukebox database to become unstable or corrupted

If an older version of OpenMG Jukebox is installed

If OpenMG Jukebox Ver 1 x is installed in your computer, go to step 2 and select [Install OpenMG Jukebox Ver 2 0 and Driver]

The older version of OpenMG Jukebox is uninstalled automatically and older version songs are automatically upgraded, so you can still enjoy them with OpenMG Jukebox Ver 2 0

Hint

The message "Remove shared File?" will appear during uninstallation If you click [Yes to All], "Sure?" will appear Click [Yes] If you do not see the message, click the minimize buttons to try minimizing all windows to check for the message on the Desk top

When you start using a new digital music player whose supplied CD-ROM is an older version of OpenMG Jukebox

If you have already installed OpenMG Jukebox 2 0 and then want to add a digital music player as a new external device, be sure to install its driver using the OpenMG Jukebox Ver 2 0 installation CD-ROM before connecting the new device to your computer

Select [Install Driver only] in step 2 on page 11, and select your model

Note that you cannot use the older version (OpenMG Jukebox Ver 1 X) installation CD-ROM If you accidentally start installing OpenMG Jukebox Ver 1 X after installing Ver 2 0, be sure to terminate the installation before it overwrites the Ver 2 0 software Otherwise, the registered OpenMG Jukebox database will be corrupted

Note

If you need to install an older version software using its CD-ROM after uninstalling the existing Ver 2 0, make sure to back up the songs by using OpenMG Jukebox Backup Tool so that you will not loose all the songs registered in OpenMG Jukebox For the details about backup, see the online Help of OpenMG Jukebox

Importing digital audio files into the OpenMG Jukebox

Starting OpenMG Jukebox

Do one of the following:

- Double-click [OpenMG Jukebox] icon on the desktop
- Click [Start], point to [Programs] - [OpenMG Jukebox] and click [OpenMG Jukebox]

The OpenMG Jukebox window appears

Recording audio CDs on the hard drive

Songs recorded from audio CDs can be registered on the hard disk to Playlists and managed with OpenMG Jukebox

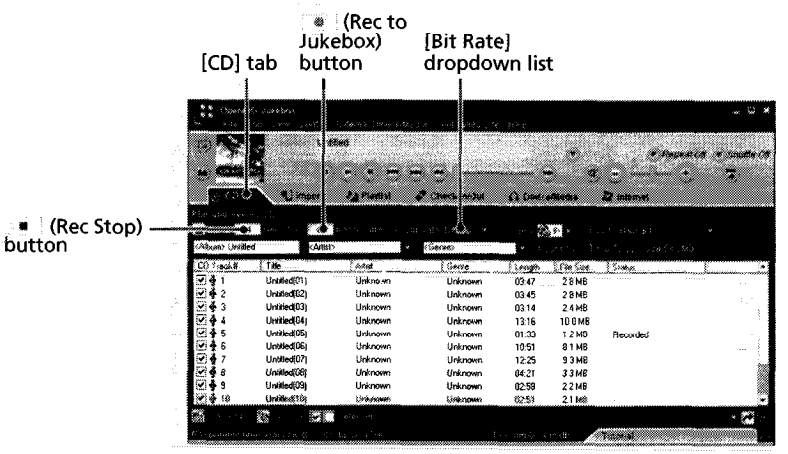
1 Insert the compact disc you want to record into the CD-ROM drive of your computer

The CD window and the tracks of the audio CD appear

Hints

- If the CD window is not displayed automatically, click the [CD] tab to display the CD window
- By importing song names, you can retrieve information from the CDDB2 database via the Internet

Click (CD Info) Refer to "OpenMG Jukebox Help" for details



2 Select the recording bit rate

From the drop-down list, select the bit rate for recording

3 Confirm the check mark ☑ appears by the songs you want to record

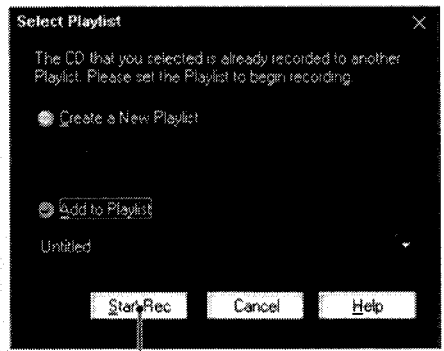
To uncheck the songs you do not want to record, Click the song numbers(track numbers) The ☑ disappears

If you accidentally clear the ☑ of a song you want to record, just click the song number again

continued

4 Click (Rec to Jukebox)

The "Select Playlist" dialog box appears


Select Playlist
The CD that you selected is already recorded to another Playlist. Please set the Playlist to begin recording.
Create a New Playlist
Add to Playlist
Untitled
Start Rec
Cancel
Help

Start Rec button

Note

When you record from an audio CD on your CD-ROM drive for the first time, the "CD Drive Optimization" dialog box appears when you click (Rec to Jukebox), in order to verify that the CD-ROM drive can perform recording properly Click [Start] to verify your CD-ROM drive After the verification is performed, recording starts

5 Register the songs to the Playlist

If you want to create a new Playlist, click [Create a New Playlist] and enter the name of the Playlist you want to create

If you want to add the songs to an existing Playlist, click [Add to Playlist] and select the Playlist from the drop-down list

6 Click [Start Rec]

Recording starts

To abort recording

Click (Rec Stop)

The recording is aborted To resume the recording, click (Rec to Jukebox) again
When the recording is resumed, it starts from the beginning of the song that was previously aborted

About Bit Rates

In OpenMG Jukebox, the bit rate for recording an audio CD can be chosen from 132 kbps/105 kbps/66 kbps The sound quality and available recording time after the conversion will be different depending on the selected bit rate A Higher value makes the sound quality better, but the size of the recorded data will be bigger thus shortening the total check-out time available on your digital music player

Likewise, a lower value means less sound quality , but lengthens the total check-out time available on your digital music player

Importing songs via EMD

What is EMD (Electronic Music Distribution) service?

EMD stands for Electronic Music Distribution, which is a generic name for services that distribute digital audio contents via the Internet or other kinds of networks

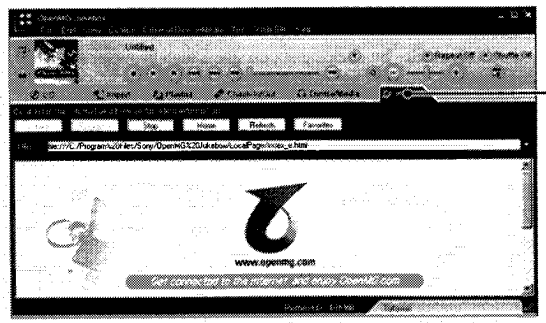
To use an EMD service supporting OpenMG

You must be able to access the Internet from your computer Sign up with an Internet service provider, properly configure your computer, and configure the settings of your Web browser before using this service After the connection to the Internet is set up, view the OpenMG Home Page (http://www openmg com/) using the "Internet" screen of OpenMG Jukebox or another web browser You can access the web sites of the EMD services linked from the OpenMG Home Page

To use an EMD services

1 Click the [Internet] tab to display the Internet window

The introduction to the OpenMG Home Page appears on the window



2 Click the button or logo on the window

The connection to the Internet starts and the OpenMG Home Page appears
The OpenMG Home Page provides a guide to EMD service Web sites that support OpenMG and information on how to use EMD services
Refer to this OpenMG Home Page for more information about importing audio contents using EMD services

continued

To download audio files from web sites of EMD services

1 Display the web page of an EMD service on the Internet window

2 Click an audio file for downloading (e g , MP3 files or WMA files compatible with WMT)

Downloading starts automatically
If you click an audio file that requires purchasing, the default web browser starts up to display the online transaction page After the process is completed, the audio file is allowed to be imported into OpenMG Jukebox

3 Import downloaded songs to the OpenMG Jukebox

If they are imported automatically, they are registered as playlists which the EMD service determines

If they are not imported automatically, select the songs in the Import window to import to the OpenMG Jukebox (see page 17)

Note

Audio files cannot be imported automatically by clicking if you use a web browser (e g , Internet Explorer, Netscape, etc) other than the Internet window of OpenMG Jukebox In this case specify the audio files in the Import window to import them

Hint

- It is possible to import audio files from some software such as Liquid Player into OpenMG Jukebox Refer to the OpenMG Home Page (http://www openmg com/) for details
- The Internet settings (e g , proxy server, etc) are related to the settings of your Internet Explorer If your computer is set to be used within a firewall, etc , confirm the settings of Internet Explorer before the connection

Note

When specifying the location to store songs, do not choose a folder on removable media,such as CD-R, CD-R/W, MO, ZIP, etc choose a folder on the hard disk of your computer

Importing MP3 and WAV format audio files, etc.

The following audio files are converted to the ATRAC3 format and can be imported to OpenMG Jukebox

- **MP3 file**

  MP3 files of 16 bits, monaural/stereo, 32 kHz/44 1 kHz/48 kHz

- **WAV file**

  WAV files of linear PCM, 16 bits, monaural/stereo, 32 kHz/44 1 kHz/48 kHz

- **WMT (Windows Media Technologies) compliant audio file downloaded via EMD**

  WMT files of 16 bits, monaural/stereo, 44 1 kHz

  Depending on the copyright protection, some WMT compliant audio files may not be available for importing

For Network Walkman players (except for NW-S4)

To transfer (check-out) songs to the Network Walkman, it is necessary to convert the audio files to be checked-out into ATRAC3 format Audio files converted into ATRAC3 format can be imported to the OpenMG Jukebox by using the Import feature (It is also possible to import files in their original format and to convert into ATRAC3 format when checking-out)

For Music Clip player or Network Walkman NW-S4

- When the audio files to be checked-out are in the MP3 format, it is possible to import them as they are and to transfer (check-out) them to the Music Clip/NW-S4 player
  You can only import MP3 files encoded with a bit rate up to 256 kbps (except for files encoded with a variable bit rate) The copyright information of the files is also checked before importing
- For other format audio files, to conversion to ATRAC3 format is necessary before transferring (checking-out) them (It is also possible to import files in their original format and to convert into ATRAC3 format when checking-out)

---

1 Change the settings for importing according to your external device/media

① Select [Options] from the [Tool] menu Then click the [Import] tab

② Select [With the following External Device/Media] from [Set the default External Device/Media], and select your devices from the displayed list

For Network Walkman IC Audio Player (except for NW-S4):

Select [Network Walkman (E)]

For Network Walkman Memory Stick Audio Player:

Select [MagicGate Memory Stick Device]

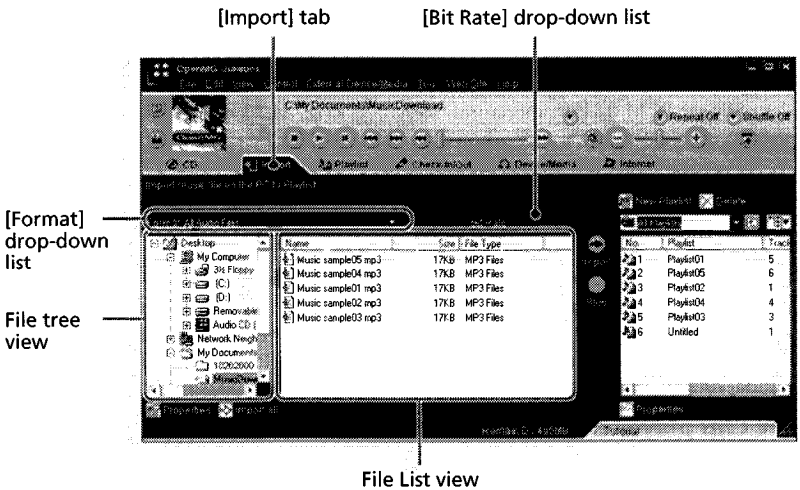
For Music Clip Player or Network Walkman NW-S4:

Select [Music Clip/NW-S4]

This setting is applied automatically for the check-out format when importing data

continued

2 Click the [Import] tab to display the Import window



3 Select the audio format you want to import from the [Format] drop-down list

4 To import data while converting into ATRAC3 format, select the recording bit rate (see page 13) from the [Bit Rate] drop-down list

Note

When you select [Without External Device/Media] from [Set the default External Device/Media] in step 1, the recording bit rate cannot be changed

5 In the File Tree view, click the folder containing the audio file you want to play

The audio files in the selected folder are listed in the File List view

6 Click to select an audio file you want to play from the File List view

7 Click to select the desired Playlist on the right side of the window, and click (Import)

The audio file you selected in step 6 can be imported into the Playlist According to the setting in step 1, the file is imported in its original format or converted into ATRAC3 format

Hint

- You can import all of the audio files in the drive dedicated on your computer to your OpenMG Jukebox at one time For details, refer to "Importing audiofiles from your computer" - "Importing songs" in the OpenMG Jukebox Help
- If the music title is included in the data, such as ID3 data of MP3 format files, the title is displayed in the "Title" column of the Playlist view of the OpenMG Jukebox If the title data is not included, the file name is displayed in the "Title" column

Notes

- The original MP3/WAV files imported are referred by the OpenMG Jukebox when playing back or checking-out the data Therefore, to prevent moving or deleting the files, copy them to a specific folder in the hard disk before importing them to the OpenMG Jukebox

  If the referred file is stored in a removable media and the media is removed, the following messages are displayed when try to playback or check-out the data

  For playing back: "Cannot play selected song The song file not found "

  For checking-out: "Detected song(s) which cannot be checked-out "

  When the referred file is on a network, the same messages are displayed when the network is disconnected
- When deleting a song, note that the original MP3/WAV is also deleted when you select [Delete the song file from the PC]

Transferring songs from the computer to your digital music player (Check-Out)

The songs on the Playlist of OpenMG Jukebox can be transferred (checked-out) to your digital music player

1 Connect the digital music player to your computer

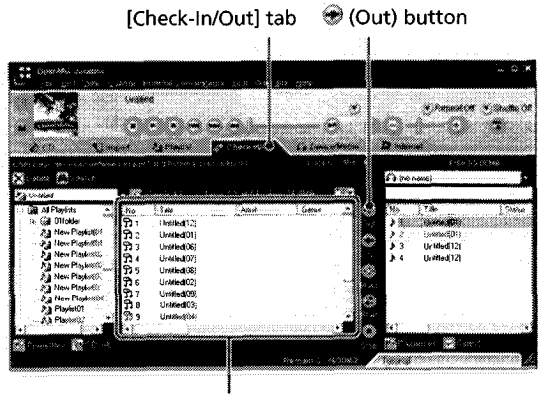
For more information about connecting, see your digital music player operating instructions

If you use Memory Stick Audio Player with your computer, insert a "MagicGate Memory Stick" in the Player before connectiong to your computer

2 Transfer the audio files to the digital music player (Check-Out)

1 Run OpenMG Jukebox, then click [Check-In/Out] tab to display the Check-in/Check-out window

Your computer recognizes the connected digital music player and the list of songs are displayed on the right side of the window



2 Select the Playlist containing the songs you want to check-out

The songs in the Playlist are listed in the Playlist view in the center of the window

3 In the Playlist view, select the song to be checked-out

To check-out more than one song at a time, hold down the Ctrl key and click the songs to be selected

4 Click (Out)

Check-out starts and the song is added to the end of the song list in the digital music player

Note

You can set to "1 step mode" or "2 step mode" for checking-out
In "2 step mode," click the (Start) button after selecting the songs
Refer to the online Help for details

To stop check-out

Click (Stop)

Note

Once check-in has started, do not disconnect the USB cable or "Memory Stick" until the check-in is complete Doing so may damage the data or cause malfunction

Transferring songs from the digital music player to the computer (Check-in)

You can return the tracks recorded on the digital music player back to the hard drive of your computer (Check-in) You can return them only to the same computer from which the tracks were checked-out

1 Run OpenMG Jukebox, and click [Check-In/Out] tab to display the Check-in/Check-out window

Your computer recognizes the connected digital music player and the list of songs are displayed on the right side of the window

2 Select the song to be checked-in from the song list of the digital music player

To check-in more than one song at a time, hold down the Ctrl key and click the songs to be selected

3 Click (In)

Check-in starts

Note

You can set to "1 step mode" or "2 step mode" for checking-in

In "2 step mode," click (Start) button after selecting the songs Refer to the online Help for details

To stop check-in

Click (Stop)

Note

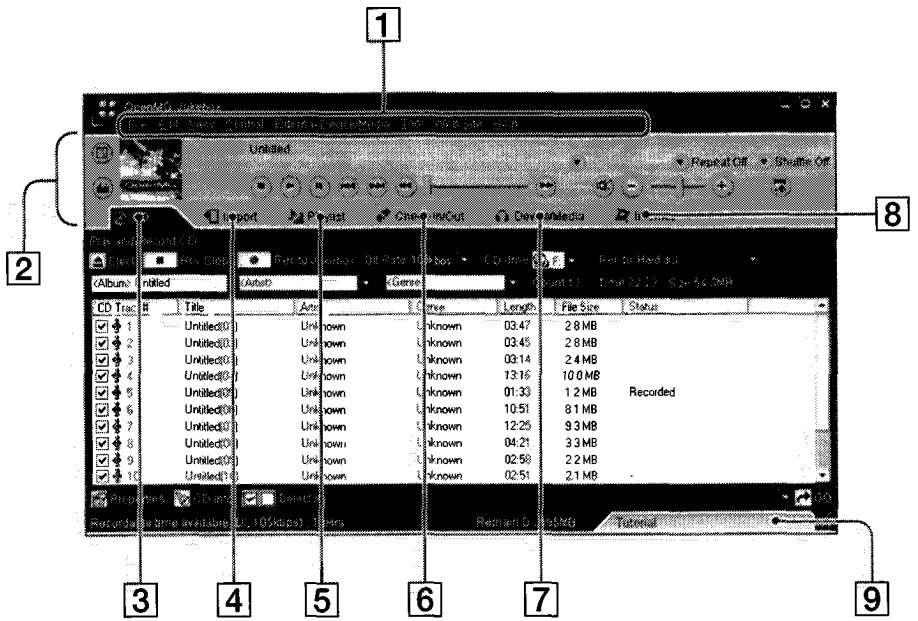
Once check-in has started, do not disconnect the USB cable or "Memory Stick" until the check-in is complete Doing so may damage the data or cause malfunction

Hint

If you want to check-in all the songs, click (In All) All the songs in the digital music player are checked-in

Window reference

Overview of the OpenMG Jukebox window



1 Menu Bar: Shows OpenMG Jukebox menus

2 Playback Control Area: Displays the playback control buttons (e g , Play/Stop, Previous, Repeat, etc) for songs in OpenMG Jukebox Playlists, external device/media, or Audio CDs
Refer to the OpenMG Jukebox online Help for details

3 [CD] tab: Displays the CD window (page 24)

4 [Import] tab: Displays the Import window (Page 26)

5 [Playlist] tab: Displays the Playlist window
Refer to the OpenMG Jukebox online Help for details

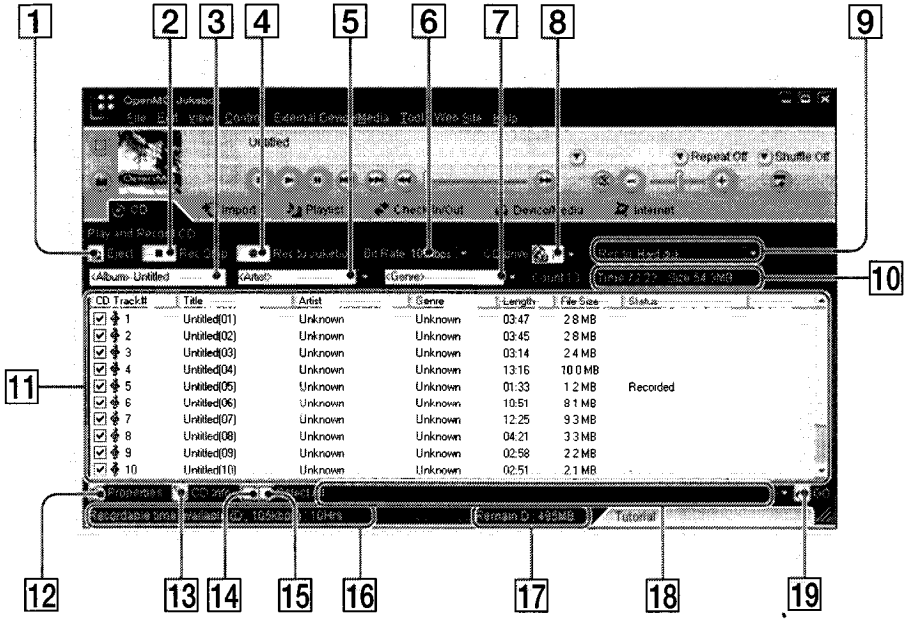
6 [Check-In/Out] tab: Displays the Check-In/Out window (page 28)

7 [Device/Media] tab: Displays the Device/Media window Refer to the OpenMG Jukebox online Help for details

8 [Internet] tab: Displays the Internet window (page 30)

9 [Tutorial] tab: Displays the Tutorial window
Refer to the OpenMG Jukebox online Help for details

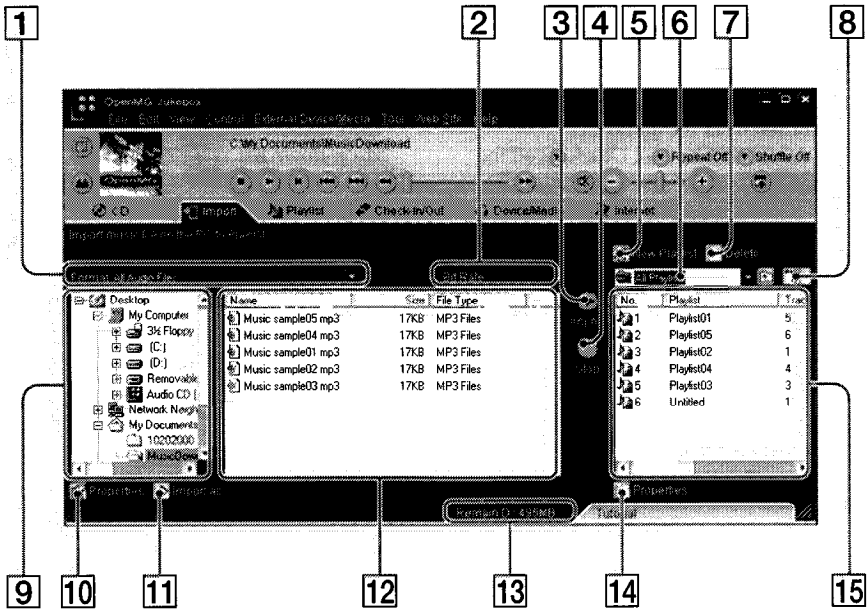
CD window



1 [Eject] button: Ejects the audio CD
2 Stop Recording button: Stops recording
3 Album Name: Displays the name of the album
4 Start Recording button: Starts recording
5 Artist Name: Displays the name of the artist
6 [Bit Rate]: From the drop-down list, select the bit rate for recording
7 Genre Name: Displays the name of the genre
8 CD-ROM drive: Displays the name of the CD-ROM drive of your computer
9 [Rec to]: From the drop-down list, changes the setting of the destination for checking out If it is set for automatic check-out to a connected external device/media upon recording, it shows the destination for checking-out
10 [Count/Time/Size]: Displays the number and length of songs, and the file size
11 Song display area: Displays a list and information about each song on the audio CD, such as the track numbers, the titles, the artist name(s), the genre, the length of the songs, file size, and the recording status
The ☑ mark indicates which songs are selected for recording

12 [Properties] button: Opens the "CD Properties" dialog box
13 Get CD Information button: Connects to the CDDB2 database via the Internet and automatically retrieves the audio CD information, such as the name of the album and track titles
14 Check All button: Selects all the songs to be recorded from the audio CD
15 Clear All Checks button: Deselects all the songs to be recorded from the audio CD
16 [Recordable time]: Displays the estimated available time for recording (depending on the bit rate) on the drive in which OpenMG Jukebox is managing the data
17 [Remain]: Displays the amount of free space remaining on the drive in which OpenMG Jukebox is managing the data
18 Address: Displays the URL address information You can select one from the drop-down list
19 [Go] button: Connects to the Internet web page of the URL

Import window



1 [Format]: From the drop-down list, choose the type of audio files you want to import to OpenMG Jukebox

2 [Bit Rate]: From the drop-down list, you can select the bit rate for conversion of audio files from the other formats to the ATRAC3 format

3 Start Import button: Imports the audio files (or the folders containing the audio files) selected in the File Tree view/File List view to OpenMG Jukebox

4 Stop Import button: Stops importing

5 Create New Playlist button: Creates a new Playlist

6 Playlist drop-down list: You can choose Playlists, etc , in the Playlist Tree view drop-down list

7 [Delete] button: Deletes the items of the Playlist that are selected in the Playlist Tree view/Playlist view

8 Switch View button: Switches between "Tree + List," "List," and "Tree" view

9 File Tree view: Displays the folders, etc , on your computer in the File Tree view (similar to Windows Explorer)

10 [Properties] button (File Tree view/File List view): The "Properties" dialog box of the folder or song, which is selected in the File Tree view or the File List view, appears

11 [Import all] button: You can simultaneously import multiple audio files on your computer to OpenMG Jukebox

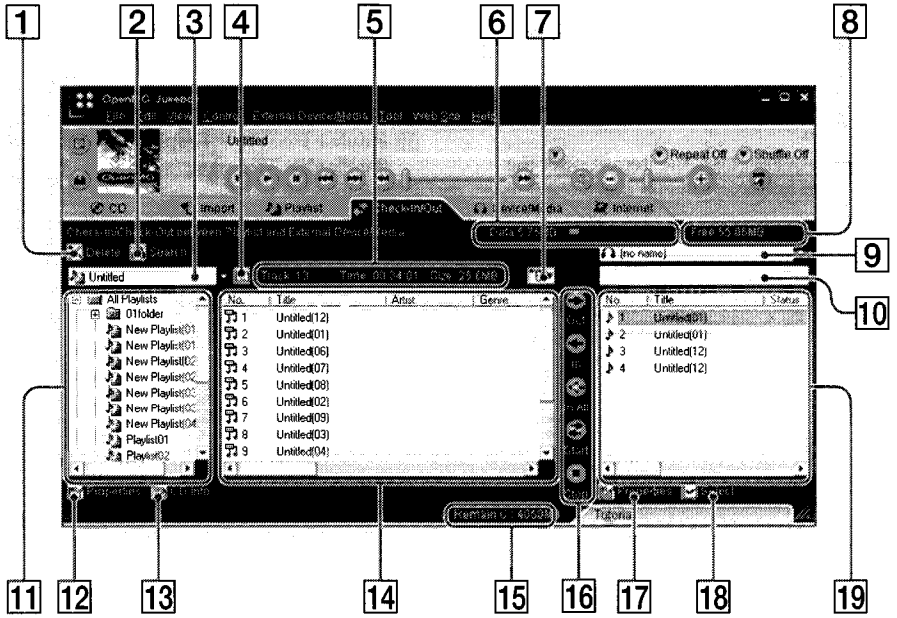
12 File List view: Lists the items under the selected folder in the File Tree view

13 [Remain]: Displays the amount of free space remaining on the drive in which OpenMG Jukebox is managing the data

14 [Properties] button (Playlist): When a Playlist is selected, the "Playlist properties" dialog box appears
When a song is selected, the "Song properties" dialog box appears

15 Playlist Tree view: Displays the Playlist in the Playlist Tree view (similar to Windows Explorer)

Check-In/Out window



1 [Delete] button: Deletes the selected Tree/List view item

2 Keyword Search button: You can search for songs and Playlists using keywords, such as album, title, artist, or genre names

3 Playlist drop-down list: You can choose Playlists, etc , in the Playlist Tree view drop-down list

4 Go Back button: Go one directory level up

5 [Track/Time/Size]: Displays the number and length of songs, and the file size of the selected Playlist

6 [Data]: Displays the amount of space used on the connected external device/media

7 Switch View button: Switches between "Tree + List" and "List" view

8 [Free]: Displays the amount of free space remaining on the connected external device/media

9 External Device/media name: Displays the names of the connected external device/media

10 Audio Album Name of "Memory Stick" (only when connecting a Memory Stick Player)

11 Playlist Tree view: Displays the Playlist, etc , in a Playlist Tree view (similar to Windows Explorer)

12 [Properties] button (Playlist): When a Playlist is selected, the "Playlist properties" dialog box appears
When a song is selected, the "Song properties" dialog box appears

13 Get CD Information button : Connects to the CDDB2 database via the Internet and automatically retrieves the audio CD information, such as the name of the album and track titles

14 Playlist view: Lists the items under the selected item in the Playlist

15 [Remain]: Displays the amount of free space remaining on the drive in which OpenMG Jukebox is managing the data

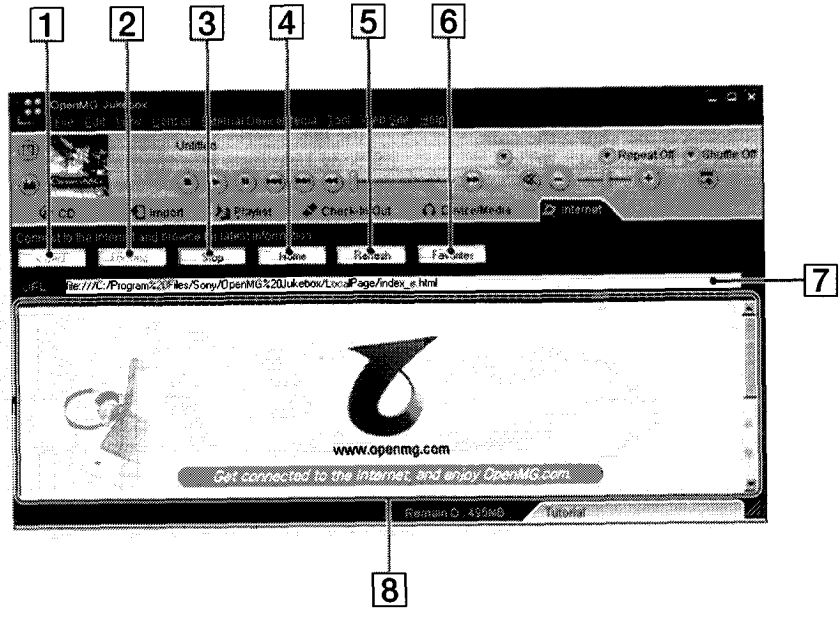
16 Check-In/Check-Out control buttons

17 [Properties] button (External Device/Media): When a song in the external device/media is selected, the "Song properties" dialog box appears Otherwise, the "Device/Media Properties" dialog box for the external device/media connected to your computer appears

18 Select All button: Selects all of the songs in the list

19 Song List: Lists information about each song in the external device/media, such as the titles, the artist name, and the length of the songs

Internet window



1 [Back]: Goes back to the previous page

2 [Forward]: Moves forward to the next page

3 [Stop]: Quits the connection to the current URL

4 [Home]: Displays the introduction of OpenMG Home Page

5 [Refresh]: Refreshes the page shown on the window

6 [Favorites]: Registers/Displays your favorite addresses

7 Address: Allows you to enter the URL (Internet address), or to select one from the drop-down list

8 Display area: Displays the web page of the URL

Menu Reference

[File] menu

New

Playlist: Creates a new Playlist

Playlist Folder: Creates a new Playlist Folder

Open

Opens the "Open File" dialog box
In this dialog box, you can import the selected audio files to OpenMG Jukebox

Import All

Opens the "Import All" wizard
In this wizard, you can simultaneously import all of the audio files in the selected drive to the Playlist of OpenMG Jukebox

Exit

Quits OpenMG Jukebox

[Edit] menu

Copy

Copies the currently selected item to the clipboard

Paste

Inserts the contents of the clipboard

Delete

Deletes the currently selected items

Check All

Checks all of the check boxes shown on the CD window

Clear All Checks

Clears all of the check boxes shown on the CD window

Select All

Chooses all of the items in the list shown on the current window

Move Up

Moves the currently selected item one line up

Move Down

Moves the currently selected item one line down

Divide

Divides the selected song into two

Combine

Combines the selected multiple songs into one.

Rename

Makes the name of the selected item editable

Keyword Search

Displays the "Keyword Search" dialog box You can search for tracks and Playlists using keywords, such as title, album, artist, or genre names

Create Shortcut

Creates a shortcut icon for the currently selected Playlist or song on the Windows Desktop If you double-click the created shortcut icon, OpenMG Jukebox launches automatically and starts playback

Properties

Displays/edits the information about the currently selected item

[View] menu

CD Screen

Displays the CD window

Import Screen

Displays the Import window

Playlist Screen

Displays the Playlist window

Check-in/Out Screen

Displays the Check-in/Out window

Device/Media Screen

Displays the Device/Media window

Internet Screen

Displays the Internet window

Cover Art/Analyzer display area

Switches Cover Art and Analyzer view

Time Display Mode

Switches the mode between "Progress" and "Remain" displayed on the Time Display indicator in the Playback Control area

Tutorial

Opens/Closes the Tutorial window

Cover Art/Lyrics Information

Displays the information of the Playlist or the song, such as cover images and lyrics

Simple Mode

Switches to Simple mode

Refresh

Updates the displayed contents with the latest information

continued

[Control] menu

Play

Plays the currently selected Playlist/song

Pause

Pauses playback

Stop

Stops playback

To Next Track

Skips to the beginning of the next song

To Previous Track

Skips back to the beginning of the previous song

To Previous

Skips back to the beginning of the current song

Start Import

Imports the audio files to OpenMG Jukebox

Stop Import

Stops importing the audio files

Repeat All/Repeat 1/Repeat Off

Selects the repeat playback mode

Repeat All:

Repeats all of the songs in the current Playlist

Repeat 1:

Repeats the current song

Repeat Off:

Turns repeat mode off and returns to normal playback mode

Shuffle

Switches on/off the shuffle playback mode
Shuffle on plays songs in random order

Muting

Switches on/off the sound of playback

Start Recording

Starts audio CD recording

Stop Recording

Stops audio CD recording

Eject

Ejects the audio CD

[External Device/Media] menu

Check-Out

Check-out selected song(s) to the external device/media (In 2 step mode, adds the currently selected song(s) to the list as the song(s) to be checked-out)

Check-In

Check-in selected song(s) from the external device/media (In 2 step mode, adds the currently selected song to the list as the song(s) to be checked-in)

Check-In All

Selects all songs in the external device/media to check-in (In 2 step mode, adds all the selected songs to the list as the songs to be checked-in)

Start Check-In/Check-Out

Performs check-in/check-out of the selected song(s)

Stop Check-In/Check-Out

Aborts check-in/check-out

Select External Device/Media

Switches control of the external device/media when more than one external device/media is connected to your computer

Note

This function may not be available, depending on the external device/media you are using

External Device/Media Properties

Displays the information about the external device/media

[Tool] menu

Get CD Information

Connects to the CDDB2 database via the Internet and automatically retrieves the audio CD information, such as the name of the album and track titles

Submit CD Info

Submits your CD information to CDDB2 via the Internet, such as an album title, artist name, or track title

Show Extended CD Info

If this item is checked, the "CDDB2 Disk Information" dialog box appears the result of the search for the CD information

Music Visualizer

Launches the Music Visualizer application

Note

Music Visualizer is only available on Sony computers with Media Bar Version 3 0 or later

Optimize Format

Converts audio files in OpenMG Jukebox to the appropriate formats, depending on the external device/media

Options

Opens the "Options" dialog box of OpenMG Jukebox

[Web Site] menu

Register product page

Connects to the Internet and displays the OpenMG Jukebox user registration page

Product support page

Connects to the Internet and displays the OpenMG Jukebox support page

CDDB The #1 CD Info Source

Connects to the CDDB2 Web site

OpenMG Home Page

Connects to the Internet and displays the OpenMG Home Page

Help menu

OpenMG Jukebox Help

Opens the online help for OpenMG Jukebox

External device/media Help

Opens the online help for your external device/media (e g Network Walkman or Music ClipPlayer)

Tutorial

Opens/closes the tutorial for OpenMG Jukebox

About OpenMG Jukebox

Shows the OpenMG Jukebox version information

Uninstalling the OpenMG Jukebox

Follow the instructions below on how to uninstall the OpenMG Jukebox

For Windows 98/Windows 98 Second Edition/Windows Me users

1 Click [Start]–[Settings]–[Control Panel] to display the Control Panel

2 Double-click [Add/Remove programs]
The Add/Remove programs Property window appears

3 Click "OpenMG Jukebox" from the list

4 Click [Add/Remove]
The OpenMG Jukebox software is uninstalled

For users with Windows 2000 models

Log on as an Administrator, then follow the instructions below

1 Click [Start]–[Settings]–[Control Panel] to display the Control Panel

2 Double-click [Add/Remove Programs]
The Add/Remove Programs dialog box appears

3 Click [Change or Remove Programs]

4 Click "OpenMG Jukebox" from the list box, and click [Change/Remove]
The OpenMG Jukebox software is uninstalled

Features of copyright protection by OpenMG

The OpenMG Jukebox software features OpenMG, a copyright protection technology developed by Sony to protect music copyrights

OpenMG uses a high-level cryptographic technology to protect music contents with computers

Users should be notified of the restrictions mentioned below

- Music recorded on the hard disk using the OpenMG Jukebox software cannot be played if copied onto other computers
- Music contents checked out from a computer cannot be played if copied onto other computers
- Music contents checked out from a computer must be checked in to the same computer You cannot check in to other computers
- Installation of the same OpenMG Jukebox software onto other computers is not permitted
- Usage Rules for using music
  If Usage Rules are included in the music by way of the copyright holder or the distributor, operation will be restricted to use permitted by the Usage Rule For music, such as compact discs, that does not contain a Usage Rule, the Default Usage Rule of SDMI will be followed This Default Usage Rule states that one file can be checked out up to three times only
- On music contents that are not compatible with the OpenMG Jukebox software
  - Under the supervision of SDMI, this software prohibits recording of music with a copy prohibition signal
- Upgrading OpenMG Jukebox software
  This software was developed in accordance with the current arrangement between Sony and SDMI If this arrangement is modified in the future, some of the software functions may become unavailable Sony may offer an upgrade kit in this case at additional user expense

Glossary

ATRAC3

ATRAC3, which stands for Adaptive Transform Acoustic Coding3, is audio compression technology that satisfies the demand for high sound quality and high compression rates

The ATRAC3 compression rate is approximately 10 times higher than that of the Audio CD, resulting an increased data capacity for the media

"Check-In /Check-Out"

Check-out is to transfer music files from a personal computer to an external device/media (such as Network Walkman) Returning checked-out music files to the same computer is to check in (You cannot move checked-out music files to another computer)

You can check-out a music file, check it back in, and then check it out again an infinite number of times The SDMI rules provide that up to four copies of a music file can be checked-out at one time OpenMG employs a method whereby three copies of a song can be checked-out simultaneously, while the fourth copy is maintained as a "master" on your PC If three copies of the same song are checked-out at a given time, one copy of the song needs to be checked-in to the computer in order to create an additional check-out

Bit rate

Indicates the data amount per second The rate is reflected in bps (bit per second) In OpenMG Jukebox, the bit rate for recording an audio CD or converting MP3 and WAV format audio files into ATRAC3 format can be chosen from 132 kbps/105kbps/66kbps 105 kbps means 105000 bits of information per second If the bit rate is large, that means a large amount of information is used to play music Comparing music of the same format, a 105 kbps data offers better sound quality than 66 kbps data, and 132 kbps data offers better sound quality than 105 kbps data However, audio files in formats such as MP3 have different encoding methods, and thus sound quality cannot be determined by simply comparing the bit rate

"MagicGate Memory Stick"

A compact IC recording media "Memory Stick" equipped with "MagicGate" copyright protection technology You can record or play data, such as music, that requires copyright protection only by using a "MagicGate Memory Stick" with "MagicGate" compatible equipment "MagicGate Memory Stick" can be used to record any other kind of digital data with any other "Memory Stick" compatible equipment "MagicGate Memory Stick" is distinguished by the "MG" and "MAGIC GATE" logos

MP3

MP3, which stands for MPEG-1 Audio Layer3, a standard for audio files compression determined by the Motion Picture Experts Group, an ISO (International Organization for Standardization) working group It enables compression of audio files to about 1/10 of the data size of a standard compact disc Since the MP3 encoding algorithm is disclosed, there are various encoders/ decoders that are compliant with this standard, including freeware that is available for no charge Thus, the MP3 standard is widely used in the computer field

OpenMG

Copyright protection technology to import and manage contents of music distribution services or CDs By using software compliant with OpenMG, audio contents can be encrypted before storage on a hard disk drive so that you can enjoy playback of the audio files on that computer OpenMG also prevents unauthorized distribution of the contents via the Internet or other networks

SDMI

SDMI which stands for Secure Digital Music Initiative, is a forum that consists of over 130 companies in the fields of recorded audio content, computers, and consumer electronics, dedicated to developing an integrated method of copyright protection technology that can be used worldwide

SDMI is working to create a framework for preventing improper usage of audio files and to promote legal music distribution services The copyright protection technology OpenMG is based upon the SDMI standard

Windows Media Technology

A technology including a contents management system called Windows Media Rights Manager, which can encrypt contents and distribute them with their conditions for usage, distribution, etc Audio files supporting Windows Media Technologies (WMT) downloaded via EMD can be imported into and managed by OpenMG Jukebox

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http //www world sony com/

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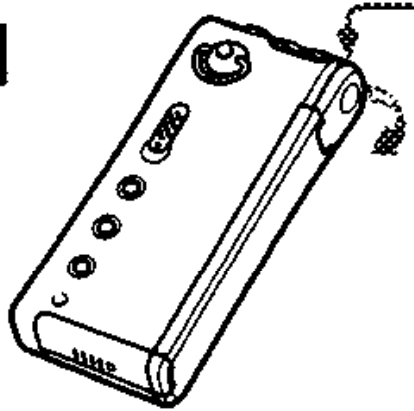
USBケーブル接続方法
How to connect the USB cable

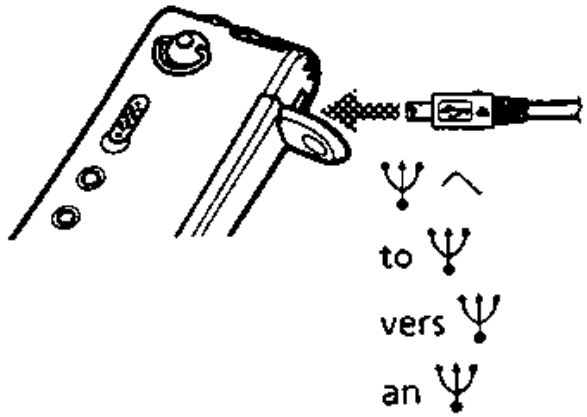
1



この部分のくぼみに
ひっかけて開ける
Open the connector cover in the direction of the arrow as shown in the illustration
Ouvrez le couvercle du connecteur dans le sens de la flèche comme indiqué dans l'illustration
Öffnen Sie die Anschlußabdeckung wie in der Abbildung dargestellt in Pfeilrichtung

Raccordement du câble USB
So schließen Sie das USB-Kabel an

2



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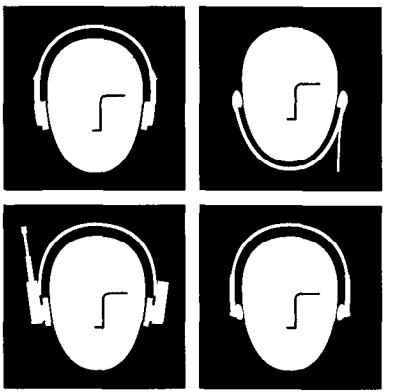
Traffic Safety Tips

- Do not use your unit while operating a motorized vehicle or bicycle It may create a traffic hazard and is illegal in many areas
- You should use extreme caution or temporarily discontinue use in potentially hazardous situations
- Even if your headset is an open-air type design to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you

REMEMBER .... USE YOUR HEAD WHEN YOU USE YOUR HEADSET.

Read this important information before using your headset.



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3-755-536-**21** (1)

Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment Now it's time to consider how you can maximize the fun and excitement your equipment offers Sony and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level One that lets the sound come through loud and clear without annoying blaring or distortion and, most importantly in a way that protects your sensitive hearing

Sound can be deceiving Over time your hearing "comfort level" adapts to higher volumes of sound which could be harmful to your hearing Guard against this by setting your equipment at a safe level BEFORE your hearing adapts

To establish a safe level:

- Adjust your volume control to a low setting
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion

Once you have established a comfortable sound level:

- Set the dial and leave it there

Taking a minute to do this now will protect your hearing in the future After all, we want you listening for a lifetime

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment Sony and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise This list of sound levels is included for your protection

Decibel Level	Example
30	Quiet library soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet
THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE	
90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation

SONY

SONY®

Customer Registration Instructions

Thank you for purchasing the Network Walkman® Please take a moment to register your product online The information you provide will help us to assist you, should you have to contact us for customer support All information is confidential

Registered customers receive the following benefits:

(1) Warranty extension from 90 days to 1 year

(2) Automatic e-mail notification when OpenMG Jukebox upgrades are available

How to Register*

Step1 Install OpenMG Jukebox

Insert the CD-ROM from your Network Walkman package
The installation program will run automatically When the installation is complete, your PC will automatically restart

Step2 Click

Double click the "Registration" icon on your desk top
You will be automatically connected to the Internet

Step3 Register your Network Walkman

Complete the "Customer Profile" Form See the instruction manual for the location of the serial number

Step4 Confirmation

We will be sending you a "Welcome" e-mail shortly to confirm your registration

* To make this system secure, we utilize SSL between your PC and our browser Please contact your network support manager if you have difficulty using the registration system

For technical support questions, please go to **http://www.sony.com/service** or visit **http://www.sony.com/openmg** We suggest bookmarking these pages for future reference

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3-231-918-01

SONY

NW-MS9

Notice for using this product

When using this product, be sure to read the following and other supplied operating instructions
For the latest information, go to the support Web site at:
http://www sony com/walkmanproductsupport

Before operating the unit

Be sure to install the OpenMG Jukebox software on the supplied CD-ROM before connecting the unit to your computer.
If you connect the unit to your computer before installing, your computer selects an inappropriate driver and the unit may not work correctly
If you connect the unit to your computer before installing OpenMG Jukebox, and [Add New Hardware Wizard] appears, click [Cancel]

Before installing the software

Before installing, be sure to quit all other Windows® programs, otherwise problems may occur

Note on installing OpenMG Jukebox

If the "Installing:" message continues to appear without advancing to the next step for several moments, click the [InstallShield Wizard] icon on the taskbar The taskbar is displayed when you press the [⊞] Windows key on the keyboard

Importing MP3 files

To import MP3 files to the supplied OpenMG Jukebox software using the Windows® 98 operating system, Microsoft® Windows Media™ Player Version 6 4 or later is necessary If Windows Media™ Player is not installed on your computer, it can be downloaded from the OpenMG Web site (http://www openmg com/us/)
If your operating system is Windows® 98 Second Edition, Windows® Millennium Edition, or Windows® 2000 Professional, Windows Media™ Player Version 6 4 or later is already installed

Backing up songs

When operations that modify the operating system (e g , operating system recovery or system restoration, etc) are performed, be sure to use "OpenMG Jukebox Backup Tool" beforehand to make a backup and then execute the operation

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3-229-191-11 (1)

See reverse side.

When OpenMG Jukebox Version 1.x is installed

- If you have OpenMG Jukebox Version 1 X (older than 2 0) on your computer, select [Install OpenMG Jukebox Ver 2 0 and Driver] to install OpenMG Jukebox 2 0
  Follow the instructions in the supplied "OpenMG Jukebox Operating Instructions "
  When you install it, OpenMG Jukebox Version 1 X will automatically be uninstalled
- Songs registered using OpenMG Jukebox Version 1 X can automatically be converted to Version 2 0, so you can continue to use them However, to be safe, it is recommended that they be backed up using OpenMG Jukebox Backup Tool
- Be sure to check in any songs checked out using OpenMG Jukebox Version 1 X before upgrading You may not be able to check in a song checked out using OpenMG Jukebox Version 1 X after upgrading
- If you are using an external device/media other than this product, select the appropriate external devices/media (multiple selection is available) after selecting [Install OpenMG Jukebox Ver 2 0 and Driver] Alternatively, restart the installer and select [Install Driver only] to install the appropriate driver

Note

After you have installed the OpenMG Jukebox Version 2 0 software, do not install OpenMG Jukebox Version 1 X to overwrite the existing Version 2 0 If OpenMG Jukebox Version 2 0 is overwritten, registered songs may be lost If installation is accidentally started, be sure to halt the installation

Notes on system suspend/system hibernation mode

- While playing or recording, or while connecting the Network Walkman player, do not change to system suspend/system hibernation mode Prevent settings that automatically make such changes
  If the mode changes to system suspend/system hibernation during CD recording, file import, check-in, or check-out, songs may be lost and the system may not be recovered normally Also, if the "Memory Stick" is replaced during system suspend/system hibernation mode, songs may be lost after system recovery
- **If you are using Windows® 2000 Professional:**
  When you put the computer in suspend/system hibernation mode while an external device/media is connected, if OpenMG Jukebox is started immediately upon system recovery, the message "Cannot initialize OpenMG PD Manager " may appear In this case, click [OK] and then disconnect and reconnect the external device/media and restart OpenMG Jukebox

Note on the "LOCK" tab on the "Memory Stick"

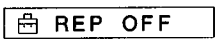
While using OpenMG Jukebox, the contents of the "MagicGate Memory Stick" may not be displayed if you insert it with the write-protect tab locked, even if you then unlock it In this case, reconnect the Network Walkman

CORRECTION

Pages 18 and 19 "To set the date and time (DATE-TIME)"

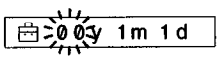
<Incorrect>

1 Press the MENU button.
The menu is displayed.



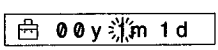
2 Press ◀ or ▶ of the Seesaw key to display "DATE-TIME."

3 Press (PUSH) of the Seesaw key.
The "DATE" display appears, and the year indication "y" blinks.

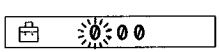


4 Press ◀ or ▶ of the Seesaw key to select the year number "y."

5 Press (PUSH) of the Seesaw key.
The month indication "m" blinks



6 Do the same to set the month "m" and the day "d," and press (PUSH) of the Seesaw key.
The "TIME" display appears, The hour indication "h" blinks.



7 Do the same to set the month "h" and the day "m," and press (PUSH) of the Seesaw key

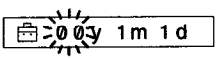
8 Press the MENU button.
The display returns to normal.

<Correct>

1 Press the MENU button.
The menu is displayed.

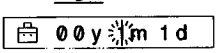
2 Press ◀ or ▶ of the Seesaw key to display "DATE-TIME."

3 Press (PUSH) of the Seesaw key.
The "DATE" display appears, and the year digits blink.

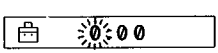


4 Press ◀ or ▶ of the Seesaw key to select the year digits

5 Press (PUSH) of the Seesaw key.
The month digit blinks.



6 Do the same to set the month "m" and the day "d," and press (PUSH) of the Seesaw key.
The "TIME" display appears, The hour digit blinks.



7 Do the same to set the hour and minute, and press (PUSH) of the Seesaw key.

8 Press the MENU button.
The display returns to normal.

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0-578-454-00 (1)

SONY®

Tape Cassette Player/Recorder/CD Player/Mini Disc
DAT/Radio/Head Phone/Speaker/MIC/Personals

Portable Audio

LIMITED WARRANTY

Sony Electronics Inc. ("Sony") warrants this Product (including any accessories) against defects in material or workmanship as follows:

1. LABOR: For a period of 90 days from the date of purchase, if this Product is determined to be defective, Sony will repair or replace the Product, at its option, at no charge, or pay the labor charges to any Sony authorized service facility. After the Warranty Period, you must pay for all labor charges.

2. PARTS: In addition, Sony will supply, at no charge, new or rebuilt replacements in exchange for defective parts for a period of one (1) year. After 90 days from the date of purchase, labor for removal and installation is available from Sony authorized service facilities or a Sony Service Center at your expense.

To obtain warranty service, you must take the Product, or deliver the Product freight prepaid, in either its original packaging or packaging affording an equal degree of protection, to any authorized Sony service facility.

This warranty does not cover customer instruction, installation, set up adjustments or signal reception problems.

This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by Sony to service the Product. This warranty does not cover Products sold AS IS or WITH ALL FAULTS, or consumables (such as fuses or batteries). This warranty is valid only in the United States.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

This warranty is invalid if the factory applied serial number has been altered or removed from the Product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. In addition, if you enter into a service contract with the Sony Partnership within 90 days of the date of sale, the limitation on how long an implied warranty lasts does not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

For your convenience, Sony Electronics Inc. has established telephone numbers for frequently asked questions:

To locate the servicer or dealer nearest you, or for service assistance or resolution of a service problem, or for product information or operation, call:

Sony Direct Response Center
1-(800)-222-7669
or write to:
Sony Direct Response Center
12451 Gateway Blvd.
Fort Myers, FL 33913

For an accessory or part not available from your authorized dealer, call:

1-(800)-488-SONY (7669)

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